

$97913$
A. JOURNAL OF MINING, AGRIOULTURE, MANUFAOTURES, SCIENCE, ART, CHFMISTRY, INVENTIONS, ETC.
VOL. VI. SAN FRANCISCO, THURSDAY; SEPTEMBER 11, 1862. ${ }^{\text {INY. 1898. }}$ NO. 1.

[From the "Miners' Companion nud Guide," published by J. Silversmith
Shin Franclaco, 1862 . For sale by all booksellers throughout the
Sain Franclico, 1862. For sale by all boo
Pacific States.]
On the Nature of the Deposits of the Metals and their
Ores, and the General Principles on which Mining is conducted.

## roo. .lt

Intermediate between the regular and irregular deposits of the metalliferous ores are those forms of occurrence designated by the German word "Fablband." These are more strikingly exhibited in Norway than elsewhere, although the game character has been recognized in other regions on a less extensive scale; and being in some respects peculiar, this mode of occurrence should not be overlooked in a review of the forms of metalliferous deposits.

The Fablbands (German, Fahlband; plural, Fahlbænder), as developed in the district of the Kongsberg silver mines, consis\& of parallel belts of rock of very considerable length and breadth, which are impregnated with the sulphurets of iron, copper and zinc, together with a little lead and silver, divseminated through the rocks in such fine particles as to be hardly visible, and only to be recognized by their tendency to decompose, and thus to give the rock in which they are
contained a peculiar rotten and disintegrated appearance at the surface; hence the name fahlband, or rotten belt, the word fahl being a corruption of faul, the miners' term for a rotten or decomposed rock.

In general, these ore-bearing belts are irregular in thei dimensions, although constantly observing a certain degree of parallelism with each other. They may be traced in the Kongsberg silver-mining district for several miles, and the greatest depth of any is about a thousand feet. The quantity of ore contained in them is usually too small to be worth working ; but oceasionally it is sufficiently concentrated to become the object of mining enterprise. There are seven o
these fahlbands in the vicinity of Kongsberg, and they are parallel in strike and inclination with the gneissoid and schistose strata in which they occur, and have the same local character in relation to dissurbances of stratification, schistose structure, and other external forms.

The fahlbands, however, are themselves traversed by fissure veins bearing argentiferous ores, and the results of extensive mining have shown that these veins are only productive when they intersect the fahlbands, demonstrating that the impregnation of the lode with miveral matter was evi-
dently dependent on the nature of the adjacent rock, and dently dependent on the nature of the adjacent rock, and
furnishing sufficient evidence that the metalliferous particles in the veins were originally derived from the fahlbands, and probably concentrated there by electro-chemical action.
This mode of occurrence will be recognized as peculiar in its character, being a combination of two distinct forms of
meta'liferous deposits; but the fahlbands themselves could meta liferous deposits; but the fahlbands themselves could their enriching action on the lodes which traverse them.
The same fact is observed with regard to the enriching of
fissure veins, when they traverse different beds of rock,
in cases where no perceptible metalliferous particles can be from the filling of fissures by incrustation of the sides with observed in any of them, and when the fahlband structure calcareous matter deposited from aqueous solution, in the may be supposed to be wholly absent. In such cases it is manner of stalactites so common in caverns. not unreasonable to suppose that a chemical examilation of these beds, in which a lode shows itself to be better filled with ore than elsewhere, might reveal the existence of inetal liferous paricles, the presence of which had been previousl unsuspected, because they were too finely disseminated through the rock, or were not of a nature to be easily decomposed, and so failed to give a marked external to the stratum in which they occurred. The fahlbands may be considered as approaching nearest to the class of segregated veins, which comes next in the class of metalliferous deposits given above, and to these, in connection with the other modes of occurrence to which the term "vein" is applied, we now turn our attention
Reqular Deposits-Segregated Veins, Gash Veins, Fisforms of -The line of demarcation between the three drawn, alth ugh in mmst cases tho difference is very apparent, and in all is of great importance in judging of the value of a metalliferous deposit. B at in sanio instancos thare is
so gradual a passage from one form to the other, that surface examinations are not sufficient to enable one to decide the question of the actual existence of a fissure or true vein, and it is only by the indication obtained at some depth be low the surface, that the vein can be placed in its proper class.
By a vein, as a geological and mining term, in general is understood an aggregation of mineral matter of indefinite length and breadth, and comparatively small thickness, difering in character from, and posterior in formation to, the cks which enclose it.
Werner, the great Saxon geologist, defined reins as "mineral repositories of a flat or tabular shape, which traverse the strata without regard to stratification, having the appearance of rents or fissures formed in the rocks, and afterwards filled up with mineral matt $r$ differing more or less from the rocks themselves." This definition would exclude many veins which do not traverse, but run parallel with the
strata, and others which occur in unstratified rocks. The definition given above, of course, includes veins of mineral matter not metalliferous, which are of frequent occurrence, but of no importance in the present connection.
Weissenbach, in a paper published in Cotta's "Contributions to the Knowledge of Mineral Veins," which is espe cially devoted to the subject of the metalliferous lodes of Saxony, has given a general classification of all the modes of occurrence which can be bro
He divides them as follows:

Veins of Sedimentary Origin.-Where a fissure has been filled from above by deposition of mineral matter, in a manner similar to that in which the sedimentary rocks themselves have been formed. The origin of these is exceedingly
imple, siace it is evident that in the process of deposition imple, since it is evident that in the process of deposition of any of the stratified masses, as of sandstone or limestone for instance, if this operation were going on in a region where open fissures existed in the subjacent rock, they would be filled by the sedimentary matter, which would assume a stratified appearance in the fissure exactly as above it. The matter thus deposited would not properly be a metalliferous ore, since this class of products have a chemical not a mechanical origin. This is perfectly evident, and it cannot fail to strike one with surprise that a theory so inconsistent with facts should have been adopted by Werner to account for veins of sedimentary origin is of little importance

Veins of attrition.-Fissures filled with matter intro duced by purely mechanical means, such as by fragments of the wall rock falling from above, or produced by friction of their sides against each ather. These phenomena are exhibited in many ore-bearing veins, in the formation of which two-fold action was concerned
3. Veins of infilration, or stalactitic veins.-These resul
4. Pluionic Veins.-Fissures flled with mineral matter, identical with that of rock formations, or mountain masses and supposed to have been introduced by injection, or pressure from beneath upwards, while in a plastic state. Such are the common gtanite veins in granite or slate.

## Segregated Veins.

## Metalliferous Veins, proper.

These two latter classes are included in the class of reguar, unstratified mineral deposits, as previously shown in the table of mineral formations; the latter division including both gash and fissure veins; and they are the only ones which are of importance in the consideration of the metal-
Segregated Veins.-Under this class of metalliferous deposits are included those vein-like masses which have a crystalline structure, or, at least, a gangue differing from the adjacent mass, but which do not seem to occupy a previously existing fissure in the rock, being so enveloped and limited on all sides within it, as to show that the metalliferous and mineral substances of which they are made up could not have been introduced into their present position in any other way than by a gradual elimination of their component particles from the surrounding formation. Their process seems to have been of a chemical nature, and one by which materials of similar character were collected together from all directions, or segregated, as it is termed. Of the conditions under which the adjacent rocks must have been when such an elimination of their metallic contents took place, we know little with certainty. We see, however, examples of segregation in masses of lava, as they cool from a state of igneous fluidity, when crystals of the different mineral species found in such rocks are found to have crystallized out into distinct individuals, from what was before an apparently homogeneous paste. The same is true of granite and the trappean racks. In the former, the single crystals sometimes attain the length of several feet. If circumstances cause the aegregating crystals to imitate an elongated mass, we have at once the rudimentary form of a vein-like mass, which may continue to develop itself and acquire considerable dimensions. A tendency to this separation of pure quartzose material will be noticed in almost all of the so-called metamorphic rocks, which frequently show bands of pure quariz, parallel with each other, and lying in the plane of stratification of the enclosing rock ; and it should be noticed that quartz is almost universally the veinstone of ores accurring in this orm of deposit.
These segregated veins differ from true veins in some important respects. In the first place, they lie parallel with the

Fig. 3.
 cleavage planes of the formation in which they occur, which is the gneissic and schistose portion of the metamorphic palæozoic rocks. The annexed wood-cut (ig. 3) represents an deal section of the form of deposit here under consideration. The ore-bearing mass may or may not appear at the surface, but its extent downwards in one plane is not to be relied upon as in case of a fissure vein, since the accumulation is liable, at any point, to be found thinning out in depth, and transferred to another plane as represented in the figure.

A striking illustration of this form of deposit may be seen in the Rammelsberg, one of the most celebrated localities of
 4). The principal mass
of ore ( $a, c$, lies in the
direction of the argillaceous slates of which the mountain is made up.
At the depth of about 400 feet, it sends off a branch (b), which dips at a considerably less angle than the slates themselves. The great-
est thickness of the mass of ore is over 150 feet; and its length is about 1900 ; bat the dimensions decrease in depth, and at 800 feet its thickness is about 20 , and its length 750 feet ; so that there can be little doubt that the mass will terminate entirely at a certain not very great depth. The ores of this singular mass are chiefly sulphurets of iron, zinc, lead and copper, intimately blended together, and almost entirely destitute of gangue.

The auriferous quartz veins of most gold regions belong to this class of deposits. They consist of belts of quartzose matter with sulphuret of iron, which near the surface is decomposed into a hydrated oxide, and contain gold disseminated through these substances, and sometimes in the ad These belts run with the strata and dip with them, and in other respects exhibit the phenomena of segregated rather than of fissure reins.
Practically, the most important feature of this class of deposits is that they cannot be depended on in depth as true veins ; as they seem almost always to be richest near the surface, and frequently terminate altogether at no very considerable depth. Nor is the ore or metal matter distributed through them with as much regularity as in the true veins, forming of en a series of nests and pockets ranged in a general lipear direction, and counected by mere threads of ore or barren veinstone.

Krupp's Cast Steel Tyres.-Two of these tyres have been loaned to Mr. Krupp by the North London Railway Company, and are placed in the Exhibition, with his magnificent show of 100 tons of cast-steel cannon, axles, tyres, crank, intermediate and other shafts, together of the value of $\$ 90,000$.
The tyres above referred to have run sixty-seven thousand miles, and do not yet require turning. The road is very severe upon tyres, and the engines are of the heaviest class, and continually mider the brako, tho stoppagoe averagnug about every mile.
Here is an extract from a report made to the Board of Directors by their engineer, dated April 14, 1862: "The engines of this line run one million miles per annum, in round numbers, and this mileage performed by Krupp's tyres would cost $£ 7336 \mathrm{~s}$. 8 ., while by the Low Moor tyres the cost would be $£ 2,08710$ s.
The average thickness of the tyres is 2.21 inches, and Krupp's are calculated to be worn down to one inch before they are disearded. To rnn 189,539 miles will require one set of Krupp's tyres, four times tarned, at a cost of $£ 139$, or six sets of Low Moor, twelve times turned, at a cost of $£ 396$, without making any allowance for the value of the old me-tal-which is greatly in faror of Krupp's. The cost, therefore of running one thousand miles is 14 s . 8d. by Krupp's and $£ 2$ Is. 9 d. by Low Moor tyres, showing a saving of 65 per cent.
It is a remarkable fact that the Belgian steel is even in-
ferior to iron, showing cleatly that the quality of Krupp's steel, and not the mere fact of his tyres being steel at all, i the important consideration. - American Railuthy Revier.

## GIRD'S BUDDING KNIFE.



The accompanying illustration, executed at this office, represents Mr. E. D. Gird's Budding Knife, a most invaluable invention for the Pacific States. Mr. J. Silversmith, of San Francisco, has been authorized to dispose of the right for States, Territories and counties for the Pacific Coast only.
This invention is one of the many California has thus far produced, and is certainly deserving of her, it being the most useful and practicable for the purposes designed. The horticulturist who once adopts this knife will find its value so evident that ever after its services will be indispensable, since with it much labor and expense are saved. In speaking of it the Scientific American says:
"The above engraving illustrates a knife which is calculated to facilitate materially the process of budding. Upon
the ends of the blades are formed crescent-shaped crosses of steel with fine edges for cutting the T•shaped sl t in the bark of the tree to be budded. These blades with their crosses are made of different sizes, so that some one of the three may be adapted to the size of the tree to be operated upon.

It is the practice of some horticultarists to remove the bit of wood which is cut from the scion with the bud, and to insert the bark only with the bud. To save this operation, the round blade is formed with several curves in its edge, so that it will cut the bark alone from the scion without taking off the bit of wood, the curves being of different radii to adapt them to scions of different sizes.

With this knife several operations are reduced to one, and the process of budding is greatly facilitated. The cres-cent-shaped cross is pressed through the bark making the transverse cut, and then by simply carrying the knife down, the vertical slit is made, and the bark is raised at the same time ready to receive the bud. This knife was used in California during the last season, for budding several thousand trees, and it gave great satisfaction to the operators."
Those desiring to purchase will please address Julius Silversmith, San Francisco, respecting terms, \&c.

## NEW ADVERTISEMENTS.

## Latest improvement

## In LADIES' BUCKLES.

M. REICHEL RESPCTTULLY ANNOUNCES TO THE LADIES OF THIS State, as well as to Jewelers and dealers in Jewelry, that he has made mportant improvements in EUCKLEs, which surpass any und all beretofore made. Their simplicity, commodionsness, and beauty render them the most useful as well as orvamental trinkets.
Orders from the country respectfully solicited. For particulars call at or address,

FREDERIK REICHEL,
Manufacturing Jeweler,
sep11
620 Merchant street, San Francisco.

## SEWING MACHINES

AT PRICES WHICH BRING THEM WITHIN THE REACH OF ALL

## NEW ENGLAND SEWING IMACHINES for $\$ 25$ !

THIS MACHINE stands confessedy at the head of everything now hefore tho public. In cheapnoss, neationss, compactness, durability and benu-
ty, it has no rival. It is made with special reference to the wants of a fam. ty, it has un rival. It thate with speciat reference to the wants of a fam.
ily, and any one with the aid of the printed directons can learn to work it successfilly in a few hours. It will work from leather tu the nuteot wombrio
without the cuange of needle, tension, or ferd. It gives the bast alisfaction where it is sold, and all who use or examino pronoupes it better adapted to meet the wants of every family thau any other machine uow offered to the public. Guage ned hemmer attached.
Every machine warranted, and kept in order free of charge. This is the
sep11
STEWART \& SHEAR,
General Agents,
60 Second stree

## Gird's BUDDING KNIFE

THE ATTENTION OF FARMERS, HORTICULTURISTS AND CUILERS, OR anufacturers of Horticultural Implements, are relerred to the above No. 24 , vol. v
State, Territory and workshop rights for sale at reasonable prices. Adtress,

SILVERSMTH, (Agent for Patentee,)
sepl 3 in
San Francisco
Willam fell, Notary Public for Storey County, N. T. Commissioner of
my 28
Deeds for California Virgiar City, N. T.

## PALMER, HANSCOM \& CO., <br> Proprietors.

Golden State Foondry, First stre
Hear Market, san
Francisco.
Palmer, Hanscom \& Co., proprietors of the above well established and favorably known works, throughout the Pa cific States, desire to call the attention of mining companies, mill owners, and others requiing machinery of any deseription, to the fact that they are enabled 10 execute any and all orders of whatever nature at the shortest notice, and at Greatly Reduced Prices.Their works are the most complete in their appointments on this coast. These gentlemen guarautee entire satisfaction to all who may favor them with their patronage.
Mining machinery, such as crushing mills and improved Knox's Amalgamators, (the best for extracting the prelous metals) kept constantly on hand and manufactured at the shortest notice Send drawings and specifications for estimates, and address,

Palyger, Hanscom \& Co.,
Golden Stat
Golden State Foundry,
San Fraucisco, Cal

KNOXS LATE IMPROVED AMALGAMATOR.
(Manufactured and for sale at the Golden State Foundry, San Francisco.)


## OORNS AND BUNIONS REMOVED.

DR. BYRON C. KENNEDY, practical Cemropodist, Iste of Philadelphin, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such has Corns, Buaions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic U1cers, and all other diseases of the Skin. He may be consulted at his oflice, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A . s., and 2 to 6 P. ar. Having devoted six years of study to this important, bat too much neglected, brunch of human knowledge, and having studied anatomy ander the mostskiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my speciality for nine years, enables ué to operate skilfolly and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lofty positiou in the profession.
Voizin is au illastrious example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kennedy has fally equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimenials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this conntry, in this brauch of the profession, thronghout the United States.

The following letter. which emphatically speaks tor itself, was written by Dr. W. L. Stevens of the University College of Philadelphia:

 delphia and also the peoplo of the State of California the esteem io which
we hold you, sand knowlag that nothang is more essential to your success
than the encouragement which your may recerve from the people of PhilaWe hold yon, and knowligg that nothang is more essential to your success
than thoencouragemont which you may recerve from the people of Phila-
delphia, in the middst of which is the playground of your boyhood, and delphia, in the mldst of which is the playground of your boyhood, and
knowing that you have devoted yoars of stedy to this important bat too
much neglected branch of humati knowledge; that you have atniued to the Much neglected brasch of human knowledge; that you have sttaiued to the
highest rank in your profession, soreral of tie Faculty and other prominent
citizens of Plaladelphia citizens of Philadelphia having submitted to yoar manipulation, wo cin re-
commond you with conflence to the citizens of San Francisco, as, olse of the commend you with confldenee to the citizens of San Francisoo, 29 olte of the
nasat skifful surgeons of the age, and wo hopo your success may be such as
will repay you for your years of study, and that you may find a broad fold will repay you for your years of study, and that you may find

for your exertio sin tho new and growiug city of the Pacific. | We subseribe norselves yours, | S W Howard, Att'y at Law, |
| :--- | :--- |
| Rev W Stanton, L, L D, | Pierce Butler, |

## Dr Strand, M D, Dr Loomis, $M$ D,

Clepole Stuvens, $\mathrm{m} \mathrm{D}^{2}$,
Sinuel Paincost, M n
Walter C Foste,
No. 718 Cathsrine street-this is to certify that Dr. Kennedy has remoy corns and bonions off my feet, which have annoyed me for years. He also remove a cancer from my mid $1 l e$ finger, which I had no use of for a pe
riod of six months. I cordially commend him to the suffering humanity,
Philadelphia as a skiful surgeon.
MRS. J. W. HAMDSOND.

## Jolnt Corbott, MD,

Capt McCure,
Wm H Mills, Jr,
Wm H Mills, Jr,
Rev Walter W At
Rev Walter W Stantov, LLD Srmuel W Howard, Atc'y at Law,
Cleopole Stovens, Pharmacentist,
aresciss
$\left\lvert\, \begin{aligned} & \text { Mrs Smith, Greene street, } \\ & \mathrm{Mrs} \text { W L Howard, }\end{aligned}\right.$

From Dr. W. L. Stevells Dr K,
Walter of Foster, Com Mer, Third st,
Myers Divis, Market st, above Fifth,
Myers Davis, Market st, above Fifth
Major Comsfock, Major Comsfock,
Mrs W. Patridge, From Dr. W. L. Stevens: Dr. Kennedy has operated upon my feet, and has for years. From the Rev. Walter M. Thompson : This is to certity that while sojourn-
ing in Philadelphia, Ir. Kenuedy has operated on three of my family to my entire satisfaction.
From the Hon. Wr. Mr. Thorn, ex-momber of the Ohio Legislature: This to certify that I called on Dr. Kelnedy to operate on my feet:- He display great skill as a surgeon, and I am satisfied that he has effectually
of those torturing pests which huve annoyod me for many years,
From Geo. F. Omerly, 637 Arch street: This is to cortify that I called o
Dr. Kennedy. Ho has operated on my feet to my entire satifaction.
50 lbg IIIARINE AND FIRE-PROOF PAINT
 tains Arsenic, Copper, Litharge and six other Minerals. When used on the Decks or Bottoms or ships, it is equal to a coat of Stone, and quitte equal to
Copper, no worms will ever effect it, and cheaper than any other paint. " . DIFECTIONS :
For Decks of Ships, use two parts Mineral Paint, one part White Lead, mix For Bottoms of Vessels, use one part ground sulphur, three parts Mineral Faint, mix with Cosil Tar and apply it hot.
For sale by all Ship Chandlers and Tradesmen, in boxes of 50 Ibs , cach, or 25 lbs . Fire-Proof Paint, When used on Roofs, Buildings, ar Fencer, it is equal to covering them
with a coat of Stone, being perfectly Fire-Proof, and consting less than any paint.

## DIRECTIONS :

HOUSE :-Mix three parts Mineral Paint with one part white lead, thin with Lussed oil : If a lighter color is wanted, mix less paint, more lead.
ROOF --Five part of sineral Paint, one part white Lead; mix with Linseed oil. Put it thick on a tin Roof, as ope coat when properly applied will last taree years.
C. BRADSHAW, Agt.,
G. I. Kovede, Sunernataadab.

WORKS, North Beach; Ofise, 318 Californiast., SAN FRANCISCO

KAPP, BURRELL \& CO-Commission Merchants, Dealers in Produce
Agricultural Implements, Leather, etc., 310 Washington. S. H. TYI,ER \& CO_Dealers in Roasted and Ground Coffee, Spices, \&ce


## THE EYES! THE EYES!! THE EYES!!!

DR. E. H. PARDEE,
Oculist and Aurist to the San Froncisco Deaf, Dumb and Blind Asylum.

After a protracted blindness of more than five years, Dr PARDFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practicing with a success that cannot be surpassed in the United States; and as proof of this he substantiates by many cases now in California that have been cured by him, after having exhausted the skill of the eminent physicians and oculists of New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there has been more blindness from bad and improper treatment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what had beeu formerly done, the almost invariable reply is, "I had my eyes burned with caustic or bluestone;" I was bled and blistered, then cupped two or three times a week-had a blue pill preseribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tightly bandaged - to avoid the open air and exercise," with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but bura them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting aud following theories the most erroneous, and destructive to the eye. How much more rational and consistent to consult an experienced Oculist, who thoroughly understands every dis ease of this tender organ in all its aspects and varieties. Dr PARDEE has from sixty to one hundred patients uuder his daily supervision, and, with but very ferr cases, they have al been treated by other physicians hefore applying to him-and all to no benefit. Those woo are doubtful are permitted to call at Dr. Pardee's office and confer with the many patients who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artificial Eyes on this coast, inserted, having all the movements of the real eye, and that they lonk so life-like that no one can tell them, when properly inserted, from the real eye. These eyes are sold reasonable
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens hy ahsarn-
tion or extraction;-"Plerypium," or fleshy membranes growtion or extraction;-" Plerygium," or fleshy membranes grow-
ing over the eyes. Artificial Pupils, \&c.
OFFTCE :-Clay street, above the Plaza-opposite Plaza OFFICE :-Clay street, above the Plaza-opposite Plaza Hotel-old No. 217, up stairs.
aug14.

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter,

> wholesale and retail deacers in

## PIANOS,SHEET MUSIO italian strings

INSTRUMENTS OF ALL KINDS, \&c., de.

Sole agents for the celebrated manufacturers, A. A. GALE \& CO., New York;
T. GILBERT, Boston ;

> C. MEYER, Pliladelphia

## PIANOS FOR RENT

New Music received by every steamer. New Music puberal discount made to the trade and professor's of music.


## LEWIS COFFEY \& RISDON'S

## STEAM BOILSR AND SHEET TRON WORKS.

The only exclusively Boiler Making Establishment on the Pacifc Coas
Owned and conducted by Practical Boiler Makers. All orders fur New For r the repenacted by Practical Boiler Makers. All orders fur New Wor quality

Old Stand; corner of Bush and Mariet Streets.
LEWIS COFFEY connecting via the pamumatholl cot with the steomers of the Atlatio FOR PANAMA,
The following Steamships will be dispatehed in the month of August, 1862 Aug. 1st-UNCLE SAM, Captain R. H. Horner.
Aug. 11-GOLDEN AGE, F. R. Baby, Commander.
Aug. 21st-SONORA, Commander.
Will leave Folsom Street Wharf, with Passengers and Trensure, for Panama AT 9 O'ClOCK, A. M., PUNCTUALhy, and connect, via Panama Railroad, at Aspinwall, with steamehijs for N. York For freight or passago, apply to

FORBES \& BABCOCK, Agents,
Je4
Corner of Sacramento and Letidesdorif sts.

## GATTEL'S

## CAPILLACEUM

## Medicated HAIR TONIC . кок.

RESTORING, PRESERVING

AND.
Beautifying the Hair.
It cleanses the pores of the skin," entirely frees the scalp from dandruff and all outaneous diseases, thereby preventing baldness and gray hair, and will cause the hardest hair to become soft and glossy.

Ladies will find the CAPILIACEUM a great addition to the toilet, both on account of its delicate and agreeable perfume, and the great facilities it affords in dressing the

Price, 75 cents. For sale by all Druggists.
HOSTETTER, SMITH \& DEAN,
au28 No. 227 Montgomery street, Russ Block

## READ THIS.

CoAl oil exploston, on saturdiy miening, while mr. brew-
Cuser was anteged in the Summer streat House in pouring coal cil from and the oil exploded. Mr's. Brewster's arms were badly burned, as wero Also the husbind's hands. HEwwover, he succeeded in manytering the flames,
and preventiug worse consequences.-[Eveuing Bulletin, Aus. 4.

## THEN THIS

COMET ILLUMINATING OIL!
Manufactured expressly for Stanford Bros.
BRAND of KEROSENE

## Best Family Oil in the Market STANFORD BROTHERS,

## INTERNATIONAL HOTEL,

## The Oldest Established First Class House in

FIRE-PROOF BRIOK BUILDING.
EOSTER \& COCEMAN, Proprietors.
Most convenient to the Sleamers' Landings, business streets, and places of Amusement.
ne2 Open all night.
RO REDUCTION IN PRICES!
The nimble "Bit" is better than the slow "Quarter."
$\$ 150, \$ 1 r 5$ \& $\$ 2$ per Day. Fine Bathing Roons attached to the Barber Shop. Warm and

NO DARK ROOMS 1 EVERY ROOM OPENS TO THE LIGHT AND AIR. Every room is furnished with a first quality Patent Spring Bed aud
Matrass, and are superior to any otter Hotel in the State. Mattrass, and are supprior to any other Hotel in the state.
he International offers to guest 5 the greatest number and best furnished Fame International Rooms, and also sets the BEST' TABLE OF ANY HOUSE IN THE Fammy
CITX.
No. No runners employed at this Houso. Our coachman will always be found on the bonts, to to take your obecks and procure your baggage for our
coaches. No charge for bagyage coaches. No charge for baggage.
WV are dotermined that trie International shall be the most comfortable,


## 

J. SILVERSMITH, Editor.

## THURSDAY

SEPTEMBER 11, 1862.
The MINING AND SCIENTIFIC PRESS is published at the State Capitol building, Rooms
Francisco, Cal.

> J. SII VERSMITH, Editor. At Furty CENTS permonth, or $\$ 4$ per annum, in advan Advertisements, Fifty Cents per line.

Engravings, Electrotypes, etc.
We execute at this Offce Engravings and Iilustrations on wood, stone,
copper, steel, otc. Stereorpying and Euccriopingr, Designs of every descopper, steel, etc. STEREOTPYiNG and ELEciRofying, Designs
cription-Buildings, sketches of Towns, Machinery, Stamp Die Plain or Colored Printing.

JOB WORK-executed with dispatch at thu cheapest rates
Patrons will remember that when we execute engravings we will insert vantage of a Wirge in the Mining and Scientime Press, thus giving the advertising Medium to be found in the country.

## JULIUS SILVERSMITH,

## COMIIISSIONER FOR NEVADA TERRITORY. office, in late state capitol, <br> Corner of Battery \& Washington sts., Room 23, up stairs.





## Regarding Patents.

We desire to call the aittention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Our arrangements are such that we can have all the papers prepared,transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter into our hands; thus saving at least three months delay.
The expense to the applicant would be rather less, if the business be done by us, than if the papers were sent to New York or Washington.
Thus by patronizing a home institution, our inventive citizens can save both time and money.
We have prompt, intelligent and reliable agents in the city of Washington who attend punctually to all Patent business sent to them. We have agents, also, at London, Paris, Brussels, Hamburg, St. Petersburg, Berlin, Vienna, and other European capitals.
195 We have also now associated with usin our business Wr. H. R. Wood, Esq., whose well known legal acquirements, and practical care, punctuality and correctness, eminently qualify him for business of this kind. Dr. Wood also acts as general agent for all persons having business to be attended to either in this city or Washington city.

## Agriculture in the Mines.

The metalliferous districts of California are so extensive, extending as they do from the Rocky Mountains on the east to the Coast Range on the west, and including both ranges of mountains, that the encouragement of the cultivation of the earth in different localities throughout this vast region could not fail to be of great utility and convenience. If all the more important necessaries of life were raised at his immediate door, or in his vicinage, it would certainly acorue much to the advantage of the miner. Hence the cultivation of the valleys and mountain gorges throughout the mines should be countenanced and encouraged. Hence, also, by a law of our State a certain protection is thrown around agriculture in the mining districts. But that protection is so indefinite and restricted, and has been so hampered and "whit. tled down" by the decisions of the courts, that it amounts to but little, if any, encouragement.

So great are the benefits which would attend on such varied avocations, whereby the money with which to buy and the thing to be bought, would be produced in the same locality, and thus the freightage, and drayage and transportation from distant points be obviated, that it would be worth the while of the mining population to take this matter in hand themselves, and adopt rules and regulations on the subject. They are authorized to enact laws for their own government in their different mining districts. Why not, then, adopt some rules by which a farmer raising breadstuffis and meats for your nse, in your neighburhood, may be properly and amply protected in the enjoyment of the fruits of his labor ?

As the law now stands, any land which is found to contain minerals, ne matter in how small proportion, lying in the mining region, may be appropriated by the miner, notwithstanding it may have been previously appropriated for agricaltural purposes. But, would it not be a good rule to make the miner's right of ousting the farmer depend on the existence of a certaiu proportionate quantity of mineral in the soil? That proportion might be fixed at the minimum paying quantity; and whenever the ground ceased to contain a sufficient quantity of the precious metals to warrant its being profitably worked, then let it be subject to the claim of the cultivator. Perbaps all the soil in the mining districts cuntains more or less of mineral properties and substances and it is certainly unreasonable and impolitic to say that because a piece of land may contain a few grains of gold per acre, that, therefore, it cannot be appropriated for agricultural purposes. Hence some standard and rule ought to be fixed by the regulations of the miners, and by State legislation, which will afforãa a sure test and criterion by which the conflicting claims of miners and farmers may be adjusted, relative to such lands as are situated within the miuing regions of the State.

## The Coso Mining District.

A few details respecting this immensely rich mining district may not be inappropriate at this juncture. Of late many rich leads have been discovered and opened, yielding results scarcely to be anticipated. A few months since we published an illustration exhibiting the leading mining localities, with particulars relating thereto. Since then, considerable work and muning enterprises of great moment have been performed, which certainly places mining interests in that district at handsome figures, and the present mine owners promise themselves as rich a harvest as some of the great Washoe adventurers. We will give a short synopsis of the companies now fully under way for developing these mines. The Pioneer Mill, erected by Mr. G. H. Monroe of San Francisco, was the first crushing apparatus, and is situated at Willow Springs, 5 miles east of the Coso Company's lead; it is a dry crushing mill, propelled by steam, and is capable of crushing about six tons of quartz por diem. Mr. Monroe contemplates soon èrecting an 8 -stamp mill, which will cgntain the latest improvod steam pans. To this mill belongs three distinct leads, entitled respectively the Winoshick, War-Tab and Decorah, comprising 900 feet each. From tests made of the ore it is found to contain about 60 per ct. gold and about 40 per cent. silver.
The Coso Silver Mining Company have seven leads, which have been described in a former edition. Altogether there are now six mills in working condition, and more are on their way to that country. Some four companies are now incorporated, all of which are prospecting their claims diligently. Thus district presents some of the most important advantages when compared with other mining localities. Plenty of wood, water, and easy access to the leads by means of good roads, are some of its leading features. The climate is as salubrious as that of Italy, and there is nothing to prevent the miner from prosecating his work the whole year.
Sorentific Tour.-The senior editor of this paper started on the 9th inst. for his lecturing tour through the mining regions of this coast. He sets ont well equipped for the expedition, being amply provided with all manner of diagrams and drawings necessary to the elucidation of his subject. Our mining population will, doubtless, receive a great and useful accession to their stociz of valuable information relative to the best manner of working and developing the riches of our mineral localities. We bespeak for him an attentive hearing and a liberal patronage.
Meteoric Shower-A correspondent of the Red Bluff Beacon writes that just before daylight on the 10th ult., he observed a remarkable appearance in the heavens, as of dopping or falling stars in every directiou from zenith to hori
zon. These luminous glokes or globoles were apparently of zon. These luminous globes or globules were apparently of different sizes, from a common marble to that of a hen's egg, and came gently down, some quite near the ground, then burst and vanished. He awakened sereral member of his tamily, then went to arouse a friend but found him intently watching the same phenomenon. They all gazed and woninvisible. The appearance was similar to the meteoric shower of the 1 st of Novemher, 1833, which was observed
throughout the Northern States.

Modern Sewing Machines.


As a household god, the sewing machine ranks equal and is as necessary as the utensils for preparing our daily nourishment. The combined efforts of science and mechanics have made many improvements, and reduced this machine to such simplicity and cheapness as to bring it within the reach of the poorest housekceper. From Patent Reports we learn that nearly one hundfed patents have been obtained since the original invention, a period of twelve years. As an article in manufacturing, it has proved one of the greatest auxiliaries, and its influence on commerce has been materially felt in every civilized conntry. We preseut in this 1ssue an illustration of the New England. Family Sewing Machine, of which the above cut is a faithful representation. It ranks probably as the neatest, simplest and perhaps cheapest sewing machine now in use. An agency has been establisled in this city, and since their introduction the sale has been so great that the factory had to enlarge its facilities to enable them to fill the orders coming from the Pacific States. Messrs. Stewart \& Shear, at No. 60 Secoud street, in this city, are the general agents, but they have established subagencies throughout this coast. The cost of this machine is ouly $\$ 25$, as will be seen by the advertisement elsewhere.

## Frederik Reichel's Improved Buckle.



The above engraving presents another splendid improvement in ladies' buckles, for which we have prepared an application for letters patent for the inventor, Mr. Reichel, of this city. This invention consists chiefly in the peculiar construction of the plate (c) which has an orifice (d) through which the waistband is introduced, requiring no sewing; the other end of said waistband being then taken around the waist and passed between the cylinders ( $a$ and $b$ ), and when the required tension is obtained, the prongs ( $a, a, a$ ) serve in holding the ribbon securely. This device is by far the simplest, most convenient and most expeditious ornament for ladies yet invented. The inventor is favorably known in this State as a manufacturer of jewelry, \&c. Mr. R. will execute all orders entrusted to him, and give information respecting his invention. Elsewhere read his advertisement.

New Invention.-There is on exhibition at Stockton a new style of windmill of the combination order. It is called "Holmes' Patent," and is so constructed as to be self-regulating, at the same time duplicating the force of the wind and motive power. This is effected by placing the revolving fans in a large drum, which operate dir ctly opposite stationary fans in the drumhead. The governing fans stand perpendicular, and the force of a strong breeze will incline the fan to a literal angle and contract the fanges, which are so prepared and placed as to almost entirely close the opposite end of the drum, thus, on a direct scientific principle, governing the revolution of the wheel.
Bur Cloyer. - In a correspondence with the California Farmer, Gen. Allen mentions abundance of "trebol," or bur clover, growing in Los Angeles county. It affords the best sort of hay, and without the trouble of mowing.

## SUMMARY OF MINING NEWS <br> 

## caldfornia.



## NEVADA TERRITORY.

We gather the following items fron the Enterprige of the 30th Augnst A picimen of excredugly rich quariz has been left at thly offee from the Pride of the West mine, situated at siver City. Bright, yellow gold stickn
out all over th. The cols is uncomanonly coarge for Washoe, and is con-
 of ore just rassed from this point will average $\$ 150$ per tous. They are now
rumaig a tuvael that will strite the lead $3 \nu 0$ feet below the surface. This tunnel startn near Juhnson's mill. There are certainly many more leads in
thas district thas would pay equally as woll as the Prude of tbe Weat wero they as well dryeloped, Sevaral nibers are paying from $\$ 40$ to $\$ 70$ per ton.
Capital in needed in Dovil's Gate district. All the work that has beon done so far has beed done by muers with littlo or no means.
The principal companies in the Flowery district are at work on their leads. Several of chem are gelesing out very tair ore, and a fow rocts sulficiently rioh
to pay for crisling. The mills are all at work, and tholigh thers is not much likelhhond of a large towa being bult in that locality, we have vo yearn only are required to develop the many promising mines found is the
surrounting hils, As the flow of water is increased by tho driving in of
eunnelo at the head of the canon, many fine sites for water mills may be qunnels at the head of the canon,
found in the viciuity of Flowery.
Virgioia City is generally sprending-" coming out of the wilderuess."
Oror ono hundred uew buildings have been erected the past fow mnths, and from present appearauces ous hundred more will be erected the coming A correspmadent
A correspondent writes of this Territory as follows: There is nnt in the Word so many rich mines in the same scope of territory as we have is gold and silver ores, equal to one mill (the Gould \& Curry) now nearly rea-
ay to go into operation in this Territory; and teken altogether, there are no nilis la the worla that will compare farorably for completebess io every
department with the hundred or more malls now in operation in Nevada.
Efsmeralda.-The mines here are juat now exciting considerable intorest, not only among those who are fortunale enough to be saterested in
them, but among the people of the outaide world, who are always watching them, but among the people of the outaide world, who are always watching the iliferent mining iistricts on this side of the Sierras. Although but littie
has beea said about tho mines in this district, yet during the senson considerable in the way of prospecting has been done, and a large amout of labor has been expended upon the diferent ledges within the past three o doubt, that the mines here are tar more exteosive thau those who were a noat intimately aceqainted with the district ever believed them to be. A
mutnber of new discoveries have been made receutly, which bids fair to number of new discoveries have been made receutly, which bids fair
equal. if not excel, anythins ever found in the place. Noledge in the distri has eser produced heter sliecimen, from the top rock than has been found
upon the Isabella, Mary Ellon, Osceol, and Rio Vista, Not even the Bunker anything from the top superior to the specimens found upon thoso above routioned.
There are two companies owning the Bunker Hill lode-one called the Dis-
covery company, the other the First South Extension. Those who discovered the ledge diviled it as near in the center of the croppings as could well be, and thus making two companies. Many persons have serious objections to extensious, for the reason that, in most casus, they are hard to 6 nd: but
in this instance, as in that of tho Winnemucca lode, at Aurora, the extension is just as good as the discovery. The companiy owang the extension have
a shaft down to the depth of 40 feet, and have a shaft down to the depth of 40 feet, and have out about 30 toln of very rich
quariz, which they intend to have snon crushed. The quartz is now mostly
decomposed decomposed, and is very rich in both gold and silver. Some of this quartz and you can cut it in flakes as you would a piece of hard soap, and is as ful of ane gold and silver as it can well be, and called quartz.
The Minnohaha comes next inte notico. The company
have a shaft or incline in about 40 feet. They have taken out some 25 tons of excellent looking quartz, which Fairly sparklen with gold, and showa un-
mistakable iodicitions of beiog very rich in ailver. The ledge is about two mistakable iodicitions of belog very rich in silver. The ledge is aboutt
feat thick and alled with blue silver veins from one side to the other. The two lodes above mentioned have the most work doue upon them they were opeued, would prove as good as the Bunker Hill or Minnehaba,
Some of the mnst prominent veins are the Hegh Peak, North Star, Body Blut, Euraka, Union, and I might mentiou many more, sll of which are well
defiond quartz veins, and skow indications of something worth digging for. beguad quartz veins, and show indications of something worth diggivg for.
The placer claims are paying very well. The boys, as a general thing, bappens. They perhaps average about $\$ 5$ per day. The gold here is worth
but $\$ 12$ au ounce. Twn years ago the merchants gavo $\$ 16$ for it . The causo
of its deprecition is, of course, unknowo. At the anoual meeting held on the 9th August, for the election of Rocordbut no chauge of importance.- [Bodia cor. of Star. The California State Telegraph company bave arranged to telegraph to Aurora, in Esmernlda, by way of Genoa. Dispatches will be sent by the
wires to that point, and then forwarded to Aurora each day. Answers wiil be returned by express and telegraph.
Humboldt.-A correspondent of the Sllver Age writing from Spring Bey, in the Humboldt mines, under date of Aug. 30, , 月殳ye Prospecting is being carried on with mnch energy. Some very rich strikes
have recently beeu made. The Ophir company situgted in this district have recenty been made. The ophir company, situated in this district,
have struck their ledge, which is rich in gold and silver. Tho ledge is aboul four feet thick. The Oneids company, on the same lrad, are running a tunnel, and expect to strike thair lead soon. The Badger company havu struck
a gnod silver lead. The Moonlight is considered one of the beat claims in a gnod silver lead. The Moonlight is considered one of the best cleims in
Humboldt county. Gnods are coming in pretty freely, the large proportiou
of which consisti of liquors. During the past two weoks there has been no



## UREGON AND WASHRNGTON TERRITORY.

Capt. R. Bledsoe who has just arrived from the new mines, writes thus from Florence, under dite of Ang. 14:
1 got back last nught from the new mines, nad after prospecting eix days
I aun sabisfed that they are as guod as the Fiorence mines. Finclo ed find pans if average dirt. From what 1 saw, 1 am of the opiniont that the mine are extensive, an dew creeks aud gulches are to be found every day. They
are on the enst fork of Headow crcek, about 45 miles from Hiornco, ani seariy due east. A great many have gone aernss Salmon, thinking they
were on Payette river, but they are on the right trailnow. Lucas, Morrow \& Co., on the river, at Canon City, took out from thei
claim $\$ 307$. Pay durt nit tho bed rock from 4 to 6 fect thick. On the alter norm of the 11 th, five men furnished dirt from the bed rock for one rocker,
atid tonk out 185 -16 nunces. This was the return for half a day's work. The week previoun they trak out in oue day $\$ 235$.
On Hoch Guteh, Howers, HeDopatd \&Co., workitg threo mon, with sluices.
ook out on Tuesday of last week $\$ 4988$. Their claim averages about $\$ 15$ The Trenton company, six men, on the creck, near Canon City, on the 12th after a hentestripping the day previous, took out $\$ 115$.
Abont 150 men are workiug on Dixie creek, some 15 Aboit 150 men are workiug on Dixie creek, some 15 miles above Canon Civ, on the opposite side or the river They report good prospect. the lack of captal and the scarcity of lumber. Everything goen to show th ichuess of this creek, uod as eoon as it is fiumed and ecicatifically worked A correspondent of the Bountaineer writing from Canon City, John Day mives, under date of August 4 , says.
The minea are turning out first-rate, and next year this will he one of the
best mining camps in the country. One company who are down to the bed rock have got out as high as $\$ 118$ to the pan. Another company of three
men touk out in one day 105 ounces. About 40 tunnels hnve been started and these are paying from $\$ 5$ to 10 ounces per day to the hand. Thero are now bere and within two thiles of this place, vearly ove thousnad mon, and a fonm enough for fo thous, mow this seasoa.
The saine paper, published at the Dallon, gives the following in regard to
the trade and prices of goode at that place: Nhour, $\$ 8 @ \$ 10 ;$ vacou, 16 ceuts; beans, $12 \%$ cts; coffet, 29c; tea, 80c@si $225 ;$ miners' cau at all times be bought at the Dalles at low figures. A fair "pack" can
 The trade ot the Jobo Day mines begins to assume quite an important fea Another party, writing to a faiend from the prospective town of Indepen dence, on one of the triuutaries of John Day's river, says the miners are eu large quanditiee of they are located the "Yeilow Bluff District." It is about $11 / 1$ mile
which long and on an average 400 feet wido. It is opposite to the mouth of Granit
creek. It is about ave fuet to the bed-roek, payiag about four cents to pa cun work it advantageously they must flume the creek. Lumber is wort $\$ 200$ per thousaud, making fluming quite an expensive operation. The gol
is fue, spooth and heavy. The mines are workable avout four months the year. The weather was so cold on the $25 t h$ July as to freezo water i riel in spots.

Ir. Sessions thinks the gold-bearing range is extensive, but onl
The mines on Granite creek were paying well; they extend from the mouth of the creck, up the same, sbout eight miles. Flour is worth in the mine
$\$ 35 \mathrm{~F}, 100 \mathrm{Ibs} ;$ bacon $\$ 15 ;$ shovels, $\$ 450$; axes, $\$ 0$; and other things in pro
Mr. W. T. Atkenon, writing to his father from Wilson creek, Powder river,
says; In four days last week four of us fook out $\$ 321$, being the first work we
have done. Ou Monday we worked part of the day and took out $\$ 45$; yesterday we toot out $\$ 149$, mostly coarse gold, oue piece weighiug $\$ 37$, and a here, und n, w discoverios are continually being made.
The gold of these mives is worth $\$ 1750$ per
The gold of these mives is worth $\$ 1750$ per ounce, but goes here for $\$ 16$. Powder rivor valley is being settled up-some 30 land claims are already
I shall move my family here next spring:
some will this fall; but I prefer shall move my family here next spring: some will
waiting till spring, to see how the Indians behave.
There is quite an excitement over on Sake river, near the mouth of Burnt
ver; bow it will prove I don't know.

## COLORADO, N. M.

By late intelligence. from the oolorado we are informed that from 800 to 1,000 persons wers at work on the placers, which are sard to be the richos ver discovered on this,continent. Whilst gold was abundant, provisions were very scarce, and a famine threatened. Flour was worth $\$ 1$ a pound
and augar $\$ 2$, and uniese provisions are soon forwarded it is feared the miners would be starved out. We learo that a line of sailing vessels are to be
put on at this port for che Colorado rjver, which will materiaily lessen the price of freight to the mines. Freight is now forwarded from Fort Yuma to the mines at $\$ 10$ per ton, and the sea fr
that charged for land carriage.-[Alta.
The Los Angeies News says that on the 22d ult., upwards of $\$ 9,000$ was
shipped from that city to San Francisco.

Stock Quotations
[CORRECTED THEEKLY FOR THE " PRESE."]

Ophir
Gould \& Curry
Central
California
Sierra Nevada
Daney
Chollar
Potosi
Lucerne
North Potosi
St. Lonis. Real Del Monte. Mount Davidson Rogers

Jetrelers' Gold. - The London Mechanics' Magazine contains the following interesting remarks on this subject: From very ancigut times it has been the practice to divido the ounce truy into twenty four imaginary puris. An ounce of pure gold, therefore, and what is called iwenty-four carat gold, are identical terms. Anything less than twenty-four carat gold indicates that in an ounce of that substance there are so many tryenty-fourth parts of pure gold, and that the remaining portions of an ounce of it is made ap of an alloy of some inferior metal, usually copper. Except for wedding rings, which are, or should be, made of standard gold, consisting of twenty-two parts or carats of pure gold, and two of copper alloy, jewelers seldom use gold of a higher rate of purity than eighteen-carat. How often they use it of a much lower degree of fineness they know best. There is no doubt that it is possible to give almost any color to gold, by the addition of particular alloys, and of late ingenuity has been at work to give the sixteen-carat gold the appearance of pure gold. Ithis is done by the aid, partly, of what is technically known as the coloring pot, in which the metal is treated to an acid bath of a certain amount of strength. By the judicious use of this contrivance, twenty-two carat gold may be made to resemble very closely native gold, as found in the shape of nuggets in California or Australia. Nuggets re never, however, found to be pure gold-they consist for the most part of 23 or $231 / 2$-carat gold, the fraction being made up of an alloy of some inferior metal. In order to test the purity of gold the application of heat is, perbaps, one of the simplest means. Pure gold will not be in the least discolored by it, while twenty-three-carat gold will take a slightly red tint. There is this disadvantage ubout the mode of testing suggested, it will certainly discolor very materially all gold of degrees of fineness inferior to that of twenty-threecarat, and nothing but the acid bath will restore it to its original hue. In order to effect this latter operation on a small scale, nothing more is necessary than to obtain an earthen pipkin, or gallipot, place the article in it, cover it with nitric acid, and hold it over a spirit or gas lamp, or even a candle, until the acid boils. The result will be that the metal will be restored to its original brightness.
As regards the testing of the genuineness of gold coin, there is nothing equal in simplicity or efficacy to weighing it. It is impossible that any metal juferior to standard gold can be used in the manufacture of counterfeit sovereigus or halfsovereigas which will give pieces, of the same size, of equal veight
'I'he testing of " jewe'ers' gold," when used in the manufacture of many kinds of trinkets, is a matter attended with considerable risk and difficulty, and perhaps the only means readily at the command of the purchaser for ensuring a proper relationship between quality and price in such cases, is to ascertain the respectability of the seller.
[Twenty-four-carat gold means pure gold, independent of its quantity-whether an ounce more or less.-ED.]
Gas.-There is a spouting well in Salineville, Ohio, up which gas rushes in large volumes and with great violence.


## V. SQUARZA'S <br> PUNCH FACTORY.

$\mathrm{W}^{\mathrm{E}}$ present hertwith the portratt and trade mark or know in thic State for his Anti-Divorce Liquere and similar productions, as menfactured by lim. We may mention that Mr. Squarza is au fait in the establishments for the sale of his famous Punch-one on Leidesdorff, the thor on Montgomery street-whech are constantly thronged with our bon ivants. The following is a list of his liquors, all of which we have tasted, and find them the most delicious and harmless beverages in this city, being pure, and unadulte
Rum Punch,

```
Cognae do.
```

rac do.
Anti-Divorcs
Coffes
och,
do.
do.

| Strawberry Punch, |
| :--- |
| Whisky do. |
| Kirschwasser |
| do. |
| Cocoa |
| Moraing Comiort, |
| Kuemonel, |

Anisetto,
Kirschwasser,
Brandy Brandy Cocttail,
Anti-Llyspepsia Bitters,
Appetiner,

Pinearpie
And CHAMPAGNES:oflall brands.

WHY WILL YOU SUFFER, YOU THAT ARE AFFLICTED?

DISEASES CURED WITHOUT' THE USE OF MEDICLNES!

THE DIRECTORS OF
The Electropathic Institute, 645 washington street,
Offer those who would avail themselves of the researches into the arena of medical seience, an opportunity to benefit thereby. Thus, by the application of an art totally differng from the usual routine systemis of the day, Electropathy is now the favorite study and practice of the most learned medical savans throughout continental Europe. Every proof exists that the- mignetic electro current reaches directly the nervons centres, the brain, spinal cord and nerves of sensibility and motion, the controlling agents of organic life. The application of this powerfal and mysterious agent is thus made; uoder the guiding hand of experience, subservient to the alleviation of disease, restoring through the mediam of the nervons system the normal functions of the various viscera. By this agent the pernicious consequences of converting that most dehcate of organic tissues, the stomach, into a chemical laboratory or drug shop, is totally avoided. Thorsainds can testify as to its efficacy, and many have experienced its beneficial effects. When correctly administered, Electropathy is applicable to all diseases to which flesh is heir, but more particularly to complaints of the nervous system, Rheumatism, diseases of the Langs and Spine.
The Directors have secured the services of Dr. JOSSELTN, whose improved Electropathic Instrument staods in advance of all others as a curative agent. This scientific Physician will be in attendance from 9 A . M. until 8 P . Mr., to consalt with the afficted, and in all cases where he can conscientiously do so he will warrant a perfect and permanent cure. Those particularly who have exhausted the catalogue of medicines, will do well to call and consult him, and ezamine the certificates of cure which he has recorded in the Institute.

## Rheumatism: Rheumatism:

The above troublesome disease can be cured by electricity only; and Dr. Joselyn of the Electropathic Institute will warrait a cure, perfect and permanent, in a very short time, or ask no pay for his services.

## Consumption,

That awful and hitherto considered incurable disease, can be cured by the Electro-Magoetic treatment. The Electropathic treatment at once stops the ravages of this fell destroyer, and the cure commeuces from the first treatment. A cure in all cases will be insured.

## Diseases of the Eye.

The Electric treationt is the only mode by which a rapid and permanent cure can be effected in Sore Eyes. It acts upon the nerves and mucous membrane connected with the eye, and the removal of morbid matter and all inflammation, produces a healthy action, at once restoring that va'uable organ to its natural state. A cure warrahted, or no pay asked.

## Electro-Nagnetic Baths.

Connected with this system are the renowned ElectroMagnetic Baths. Here let us caution the public against the numerous impositions in the bathiag line. The pure magnetic bath is one of the most effective aids in the removal of disease from the system, but if given at the wrong time is likely to aggravate trouble; and cases have been known where the patient has been injured so badly as to require months to remove the injury. The only place where these baths can be obtained in all their purity is at the Institnte, where the resident physician will be always ready to examine and see that they are not unseasonably administered, and if not necessary, advise the requisite remedy.
Below will be found a list of the cases which have been successfuly treated by the Electropathic System, at the Intitute, during the last year :


## Females

In need of a physician should bear in mind that hero is a rempedy that wil
positively curo all diserses incident to the female economy, witnout ine in convenieuce of taking bitter medicines. Here all can be relieved of their
Institue open al all hours. Examinations gratis.
su14-8m

## GREAT REDUCTION <br> in prices.

## STANFORD BROTHERS,

121, 123 and 125 California Street,
KEEP THE LARGEST STOCK OF ALL KINDS

## Lamp Stock,

And will Sell Cheaper than asy House in this State LAMPS,
chmeneys.
wicks,
CAMPHENE,
BURNING FLLD,
ALCOHOL,
TURPENTINE,

> 'COAL OLI,

KEROSENE OIL.
COMET ILLUMINATING OIL.
SPERM OIL,
LARD OLL,
MACHINERY OLL,
RAPE SEED OLL,
LINSERED OIL, Raw and Boiled,
POLAR OIL,
SEARE'S OLL,
NEATSFOOT OLL
ANNER'S OLL,
\&c., \&c., \&c.
Our customers in particular, and the couptry trade generally, are requested to ascertaiu our pries before purchasing
sell at less rates than they can anford to.

## FREDERICK KESMODEL, <br> Cutler and Surgical Instrument Maker 8IJ KEARNY STREET, <br> Between Jacbson and Washington streets, san francisco,

$\mathrm{R}^{\text {ECETVED a diploma at the Fair of the Mechaulcs' Institute, September, }}$ ECEIVED a diploma at the Fair of the Mechaules Pose Cute, September, The atiention of those amicted with HERNA, or Rupture, or any ouc in-
terested, is called to hus new method of fitiug and adaptipg Trusses to the
 of fitting Trusses. There are mauy different styles which hare proven good
in many cases, but they are all uvectrain and cannot ber $r$ lied on. nud in severe cases are altogether useless. The following are some of the advan-
tages I claim for these Trusses a a ove any and all otbers: First-The Pad is

 spring that no moverenent of the body will move or displace it. There are
many other advantages. Examine and judge for yourselves. many othe

REDERICK KESYODEL,
Inrentor and Patentee.
PHILADELPHIA BREWERY
Second street, corner of Folsom, San Francisco, Call.

## Hœlscher, \& Wieland Proprietors.

Thankral for past patronage to a discriminating public, we beg leave above well known Brewery has been permavently lorated it our new prem ses, on second street-the former residence of Capt. Fnlsom where we eball endeavor to continue in furnishing our numerous patrons with the best article of "Bier." We shall strive to perpetuate the good reputation
promptitude and the faithful execution of orders as heretofore, and therebromphtude and the
by morease our custom:
Nora.

SQUARZA'S PUNCH HOME MANUEACTORY.
wholesale aid retar,
No. 44 Leidesdoxff street, neat Sacramento st. Branch at 408 Montsomery street.
my 30
FULTON FOUNDRY AND IRON WORKS.
HINCELET \& CO.,
MANUFACTURERS OF STEAM ENGINES,
Quartz, Fiour and Saw Mills; Cast Iron Fronts for Buildings,
Mining Pumps, and aill kinds of Machinery,

## 47 \& 49 First Street,

BET. MARKET AND MISSION, SAN FRANCISCO
ALL kinds of Iron and Brass Castings furnisked at short notice. Every
style of finishing to Iron when cost. Repairing to Machinery neatly dono. style of finishing to Iron when cosit. Repairing to Machnoery geatly dono. D. B. HINCKLEY WM. E. WORTH. WM A. FIELD

## REMOVAL.

OFFICE OF THE PACIFIC METALLURGICAL WORES North Beachad to 318 California streat Having ealarged our Works at Gold rock per day.
Gold and Silver ore, and Sulpharet Assayers', or Silversmiths' sweepings COPPER OBES-Highest market rates advanced in cash, for shipments. my30 S. C. BRaDSHAW, dgent,
S1s California street, near Sansome, up stairs.
A. S. ROSENBALMR C0-Tmporters of pure Harana Cigars, Tobacco,

## J. D. DEMAREST, M, D. <br> Graduate of N. Y. University, 1848. <br> Professor of the theory and practice of Medicine, as demonstrated in the treatment and Cure of Special Diseases in this Stale, during the last thirteen years.

IN ALL THE BRANCHES OF BOTIT THE ARTS AND SCRENCES, AS WELL judicious rellection, as both progreave aad instructive, hor itis a perfectly taius to an infinite greater degree of perfection by a thorough and jerseser ag continuity to one brancli of art, science, medicine, or mechanics, than if he attempted to accomplich half a dozen-ans in the latter case he would be likely, aine times out of ten, to obtan at most but a very superficial knowl and makes clear to the ardunns statent the mysterious complicatious (com plieated on account of the numerous causes which produce them) which dise eases of any kud take upon the human system; operating as they do frequently boik on the meatal and physical organs. It seeks to recuperate and restore the functions to their natural and proper status, as well as to neu. tralize all alltagonistic influences to which the system is contioually subject.
Cortaiu it is, that while the busy afairs of bife seem to exhaust all our tume and attention, the ivcipiency and progress of disease, sometimes of dangerous and fatal character, approach us almost unaoticed. Slow in its progress, but infidious in its course, a disease, or cven the simplest disturbance of a single function, hequenty becomes an air ormwinem danger when least expected. To thrs the atlention of the paysician of specianies is alway he is necessarily able to arrive with unerring certainty to a correct conclusion as to the character of the ailment aud the proper appliances far its cure This I have never found to fail. A remely properly administered, and at the yroper time, is sure to effect ite nbject of its misson, provided it be directed by the hands of a skilful physician, who mows has business. 1 need seat to us for our own bevefit, and that we should ant for a moment disregard the secret admonations that tell us to beware, lest we fal! imperceptibly into a labyrinth from which it will be auch more difficult to escape than is we had gireu proper attentiou to ourselres before venturivg so far. Copsal our pbysician before it is
selfan infinty of suffering. Below will be found a
previously to his leaving home for thestimonials received by Dr. Demarest
This may certify that Dr. J. D. Demarest, by New York. Jan. 14, 1848.
whis may has giren to his sturies, Demarst, by the assidmity amd altention whicb he has giren to bis studies, ind his muformly gool conduct, jusilies
me in behering that tbose among whom he may be placed, cau repose confime in beheriog that tbose among whom be may be placed, can repose cona
dence in his professioual atteutious.
V
I concur in the favorable impressions of my colleague. Prof. Theory and Practico of Medicine, N. Y. Enivereity. Martyn Paine, Prof. Materia Medica, N. Y. University.

This may certify tbat Dr. J. D. Denarest has been in my office for sume time past, and has attended a number of my patients for me, with nerfect meadiog hum to any nerson or persons requring medical services. I enn also speak highly of his moral as well as professional character.
New Fork, December $5,1848$.
Itake great pleasure in recommenting to the notice of all "whom it may sion; and a man in every way qualified to be trusted with the healih amm lives of any body of men le may choose to join. I bave had his acquarut abee for a long time, and be has attended my patient for me with entite gat
tisfactiou. isfactiov.
New York, Jenuary 29, 1848.

Being desirous, above all things, of rendering myself proficient in my Being desirons, avove all things, of rendic that athe persionaly nll cases that come before me, either by correspondebee or ly personal visits The strictest confidence aud the utmost regard for professional honor and secrecy always observed
Patients residiog in auy part of this State can have the remedies applicaBe minute in the details of your case, as regards the duration of the com
 Those ladies whuse complaints vaturally excite a hesitation in applyjing for necesary, as remedies and general instructions a can be administered through correspondence. Address, DR, J. D. DEMAREST,
Office-S. E. corner of Washington and Sansome streets, over Uliman's
A GENCY FOR PATENTS.-The undersigacd baving been long es A tablished in the Pateat Agency Business, and having farorable arrange ments for attending to the interests of inventors at the Pateat Office in
Washington, offer their services for the securing of Caveats and Patents also, wil! atten to the sales of Patent Rights, and to all matters connected with patented inventions.

WETHERED \& TIFFANY,
Offce, 410 Montgomery street
CEARLES R. BOND, (Iate City and County Assessor.I
REAL.ESTATE AGENT,
410 Montgomery street, San Francisco.
REAL ESTATE PURCEASED AND SOLD, LOANS NEGOTIATED

## GARRATT'S PATENT COUPLING.

## W. T. \& J. GARRATT,

BRASS \& BELL FOUNDERS,
cor. First \& Market sts., opp. Oriental Hotel,
SAN FRANCISCO.
B AbBet Metal castings, Ine Excrise, FORCE AND LIFT PUMPS, Bchurch and Steamboat Bells, Tarern and Hand Bells and Gongs, Hose
 furnished with fitings, \&c.; COLPLLNG JONTS of ALL ETEXS. Manufacturers of "Garratt's Patent Improved Journal Metal.


## MINING AND SCIENTIFIC PRESS

DR. L. J. CZAPKAI's
PRIVATE MEDICAL \& SURGICAL INSTITUTE Sucramento ntrect, below Montgomery, Opposite the Pacific Mail Steamship Company's Office,

SAN ridncticto
Established in 1854 for the Permanent Cure of all Chronio and Proult Diseases, and the suppression of Quackery.

 W2 Particelar atteatiou paill to the treaturetie of disases peculiar to Wo-

 Addreas,
L. J. CZAPEAY, M. D.

## TO TEE AFFLTCTED.

 Dr. L. J. Czipkay 13 daily receevipar applicitimns from every part of this



Duar Sir-Haviupentirely recovired fou




 trive bean. you have promirstiou to make use of this fetter as you may think
propere. Believe me brateruly yours, proper. Beileve mue gratelully yours,
M. MCHELS.

To Dr. L. J. Czaplkay, San Francisco.
3. mes.

Dr. L. J. Cz ipkay, Sun Franclsco: Sir-I havo Mikel the last of your 1855.


 ny linibe, which were so wrak that they would almonst give way under me


 I can lardly chll ywim which is the greatest, my soy or my surprise, for cx-
 letter in the nuwspapers. Believe me gratefully yours, you nas put hay
THOMAS

## [cerxтыс八те.]

The undorgigned deslrous of acquainting thase whn may be unfortunate
unough to be similarly afflicted whero a permaneat relief of their sufferings euough to be similarly afflicted whero a permanent relief of their sulferings
may bc obtanned, teels it his duty to thus publicly express bis sineere gratmap be obtamed, teels it his doty to thus publicely express his sinecero grac
itude .o Dr. . J. J. Czaipkay, for the permatunt reevirery of his health. Borne down by the distrexsiug symptoms iucildeut to thio vicious practices of un-
controllable pussion in youth, depresscd in body nand mina, upable to perform
 sought the advice or manylphysicians, who at first regarded toy disease as of
trilling importance, but alas infter a few weeks, and in several instances
 told by one that the discase being proncipally con fined to the brain, medicines would bo or litule consequance; I Iespaired of ever regainiog my healti, strenglt and conergy; and as a last resort, and witis but a fuint hope, I called upon Dr. Czapkay, who, after exumining my case, prescrined some, medticime
which almost iustantly reliered me of the dull priu and dizziness in my
 becume clear, my idens collected, the constant pains fu my back aud groius,

 solution, the filghitrul, excliting, aud at timaes pleusurable dreams at night,
followed by iuven
 two mouths after haviDg consulted the Doctor I I fent an if if iosirired by an now
life, that life which, but 2 sbort time ago, I contemplated to end by my own luadi
With a view to guard tho unfortanato, from falling into the snares of io-
competent
 and skill or Dr. Cazkky, and recommend him to all who may stand in need
of medical auvice, beugg assured by my own experience that, once under his care, a radical and permanent cure will be effected, F. FILLMORE. ]L.8.] Slate of California, oity and county of San Francis
sworn to before me, this 17 th day of $A$ pril, $A$ D. 1806. Swarn to befor
Sisged)
$[3 y 26-t x]$
[ $\mathrm{E}, 8$.
ncisco
Joen Mibderion,
Notary Public
$\mathbf{P}^{\text {ACIFIC FOLXDRY AND BACIINE SHOP, First Street, between Misslon }}$
 The Best Foundry and Machins Shop on the Pacific mouse.
With upwards of forty-fire thousand dollars worth of patteras, we are en
 both Jarine and Statiouary ; Stralgut Quartz Malls of all sizes and


 cau be seen in operation at Metcalr's inill in this city. Kinox \& Amangamators, with the latest improvenients; Howland \& Hang. to use.
Lur Whe sereens, of every degree of fineness, made of tho best Russia Iron. mut Wis and Axies of all limensions ; Bulluing Fronts ; Horse Powers mut Shlls; Boiler Fronts; Wiod Srills, of Hut's, Jolinsons's and Lum's Pu tent ; und to make a louk story short, wo make castings and machinery of
evory description wlatevur ; also, al! kinds of Brass Castings. evory description whatever also, all kin
Stcamboat work promptly attented to.
Thankful to the public for their many past favors, we would respectfully
olicit a contiuuance of thoir patronage. Before purchasing, give us a call olicit a contiuuance of th
ad see wbat we can do.

> GO DDARD \& CO

## ADVANTAGES

## BRYAN'S IMPROVED MILL

This Mal will Crush, with the same weight
of Stamps, Twenty-Five per cent, more rock
than any other mill yet invented. It is also
Oheaper, more Durable and run with Less
Powar. All parts of it being fitted togather
before leaving the shop, it can be put up
sot at work Crushiag the Ore, in Ton Hour ter arriving on the ground l
Every oue exclaims after seeing the Mill in operation, "Why has not so perfect and ye simple a mill been invented before? It would have Saved the Fortune of many a Miner expended in worthless machinery, and enriched the State a Thousand Fold!"

## QUARTZ MILL SCREENS

 Of all sizes, furnished with dispatch. ADOPTED AND NOW USED BY Union Reduction Company,
$\}$ San Francieco
THE FOLLOWING GOODS TO BE FOUND AT H. D. PEARCE'S: Gents' Heavy Gold Cases, different patterns Ladies' Heavy Gold Cases, do do ; Gcld Telescopic Pen and Pencil Case ; Extension Screw, Heavy Silver, for Gents'; Extension Screw, Heavy Silver, for Ladies Silver Extension Cases ; Silver 'Telescopic Cases Screw, Silver and Ebony Desk Holders ; Slide Silver and Ebony Desk Holders; Reverse Silver and Ebony Desk Holders:
Pen Holders, Silver and Ebony:
Pen Holders, Gold and Ebony;
Pen Holders, Gold and Ivory;
India Rubber Propelling Pen and Pencil Cases; India Rubber Propelling Pencils, short.
All the above goods are made to order and warranted; will be sold clieap for cash. There aro some thirty different patterns, leaving au opportunity for parties to select and be suited.
A cheaper class of Pens direct from New York, at wholesale only.
Nant Gold Pens constantiy ou hand. Gold Pens repaired. h. D. pearce,

606 Montgomery street, between Cley and Merchant, up stairs.
THEODOR KALLENBERG,
MAKER OF MODELS for Inventors,
M ACHINES, MATHEMATTCAL' Optical and Pbilosophical instruments Stamps.


## A. ROMAN \& CO.

WHOLESALE AND RETAL
BOOK ESTABLISHMENT.

## 417 and 419 Montgomery street,

 SAN FRANCISCO.Orders respectfully sollcited and prompty stlended to.
A Treatise on Metallurgy, Comprisiug Mining and General and Particular Mutallurgical Operations, Etc. Etc. By Frederick Overman.
A Mabual of Motallurgy, or A Practical Treatise on the Chemistry of Metala. Manual of Metallurgy, more particularly of the precious metale; but including such olbers as are employ ed in deutal practice.
Records of Mining and Metallargy, or Facta and Memoranda for the Use of Piggot on the Chemistry and Miniag ol chippor.
Practical Mineral Assaying and Mining. Overman.
Gold Minlog and Assaying by Philitu finm
Miners' Companion and Guide, compiled by Silversmith.
Assayers' Guide; or Practical directions to Assayers, Miners and Smeltera. Practical Assaying, by Michell.
Silver Ores and Silver Mines, by Prof. Blake.
Ure's Dictionary of Arte, Manuractures and Mines.
Welsbacls's Mechanics of Machinery and Engineering.
Nevillo's Hydraulic Formule Tables.
Fresunias ${ }^{3}$ Chemical Analygis.
Together with many other works in this \& similarlinee
NB2 Books imported to order on short notice,

## A. ROMAN \& CO.,

$417 \& 419$ Montromerv streat.

## DEVOE \& CO.'S STEAM ENGINE

MACHINE WORKS,
A LL ENDS OF MACHINERY, SUCH AS STEAM ENGINES, SAW MIKL, Blacksmithing, turning, alisisheng, plaking, and screw-bolt $\mathrm{A}^{\text {BRICOLLURAL MaCEINERY of all hinds made and repaired. }}$
MBe Duplicate parta of Threshing and Reaping Machines and Steam Engines and Boxlers constantly on band, and for sale cheap. Scrowv-Cutting Turning Lethes for sale.
jels.

DEVOE \& CO.

## WHEELER \& WIISON'S <br> Family Sewing Machines, WITH NEW IMPROVEMENS,

## Just received,

$A^{\text {RE The only perfect Machines for }}$
S'TTTCHINC, BINDING, HEMMING, CORDING,

QUILTING, TUCKING, FELLING, GATHERING, AND EMBROIDERING.
as also, tee
MOST ECONOMICAL FAMILY SEWING MACEINE IN USE. 585) Call and ree the improvements. H. W. WADSWORTE, Agent. Corner Montgomery and Sacramento sta. tu7
WHILE YOU HAVE THE MONEX, MARE SURE OF A HOMEI
NEVER HAZARD THE LAST DOLLAR!

## To Cariboo and Salmon Fiver Miners, and all dithora who wish to purchas PERFECT TITLE

50-w The undersigned will sell Building Lots for from $\$ 10$ to $\$ 200$. Also. 50-vara Lots and eutire Blocks of the most beautiful gardenng lands in the
 TBE SAN FRANCTSCO AND EAN JOSE Rankoad. Persons desiring to invest a few
dollars, or hundreds, or thousands of dollars, would do well to call on undersigued, AC EE DEANS ONLFY IN LANDS WTTRE A PERFECT TTTIE, to WIt : those undersigued
held under

A PATENT OF THE UNTIED STATES:
Persons residing in the interior, or whin are about to go to the Cariboo or Salmod River Mines, can purchase this property and feave it without any The undersigned will, if desired, give his personal attention to the assegsjug, paying of taxes, etc., on all lots purchased from him, and will forward to erich non-resident purchaser his lax receipts, free of all cost save the actual amount of the taxes.
Ofitce-No. 19 third foor of Naglee's Building, (south-west corner of Mer-Office-No. 19 third foor of Nag
chant and Moutgomery streets.)
m8-t尺
CHORNAUER \& ZINN-French and Gorman Fancy Ragkets, Willow Ware,

## Our Mint, its Rules, Charges and Operations.

In the columns of a contemporary we observe some exceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ fer the three years ending April, 1857 , while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the fou years of Mr. Hempstead's Superintendency, the legal limit Was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little noder two per cent. of the amount allowed by law to be Wasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our brancb mint. The total expeoditures for three years under Messrs. Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expnnditures for four years were but $\$ 1,150,64814$; , phile the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100000$ in favor of the latter. On retiring from the Superincturucizy, Mr. Hemstead left an
unexpended balance of appropriation due the mint of ap unexpended balance of appropriation due the mint of up
Wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Dnder Mr. Stevens, the present Superintendent we have no doubt everything wil work in an equally satis factory manner.
For parting silver from gold when gold
is below 300 -lo00ths. fine:
" from 300-1000ths. to $750-1000$ ths fi.
. 3cts per oz $750-1000$ ths to $950-1000$ ths " .14ets
Defosits Silver Bullion-Purceases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) propor tion of goid 1 to 300 , 3cts. per oz. gross weight

## 301 " 500 , 7cts,

\$1 16-4-11ths cents. per staddard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained $1 / 2$ perct. on gross value of gold for coining. Refining charges as in purchases.

## Bars Sold From Rerinery.

\$1 21cts. per standard oz. $1 / 2$ per ct: gross value to be ad ped for making bars.

> Depostred for Dollars.
\$1 16-4-1l ths. per standard oz. $1 / 2$ per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

## Deposifed for Imported Bars.

$\$ 116-4$-11ths. cents per staudard oz. 1/2 per ct. gross value of deposit for making bars.
In regard to the deposits of Washoe silver, the rule will hereafter be, that the value of gold contained in the same will be paid in gold coin, and the value of silver in silver coin. The value of the silver will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, unless deposited for silver dollars, in which case a charge of $1 / 2$ per cent. will be made additional. Bullion of the above as most congruous with the physical aspects of the material, but in the warrant it must be marked that so much is to be paid in gold and so much in silver, according to the con tents reported by the assayer. The above rules, and charges were promulgated on July 10th, by Superintendent Robert J. Stevens.
U. S. Branoe Mint, Nov. 6th, 1861

On and after the 15 th inst., a charge varying in accord. ance and the character of the deposit, from half a cent to three cents per oz., gross, in addition to the geveral rates, and be imposed on all bultion deposited for coindge or manu-
facture, which will require toughening or extra refining to render it suitable for mint purposes.

Robt. J. Stevens, Superintendent.


## HOSTETTER'S STOMACH BITTERS,

They renovate, purify and strengthen the system, and aid the stumach in the performance of its functions. It is a sovereign specific for imparting, strength, vigor and tone to the system, and possessing the curative powers for all diseases arising from a disordered stomach.

## DYSPEPSIA,

In all its forms, yields to its control and invigorating pro perties, and that its return is effectually prevented and the digestive powers preserved in the fullest vigor by a subse quent occasional use of this remarkable invigorant. The disease would seem to have an infinite variety of

## SYMPTOMS:

Among these are constant pain or uneasiness at the pit of the stomach, oppression after eatiog, spasms in the stomach and diaphragm, morning nausea, $I$ ain between the shoulders, futtering of the heart, constipation of the bowels, irritability, broken sleep, nightmare, loss of memory, dimness of sight, prostration of strength, dull, stupefying headache, want of appetite, flatulency, and a feeling of despondency and despair wholly independent of external causes. All the evils in this mouraful catalogue are not merely alleviated, but invariably removed, by a few bottles of Hostetter's Bitters.

## LIVER COMPLAINT:

Persons who languish for years under apparently incurable affections of the liver, the symptoms of which are pain in the right side, pain in the back and loins, a yellow suffusion of the skin and whites of the eyes, extreme indisposition to exertion, complete loss of mental activity, despondency al most amounting 10 mania, and great budily weakness, all which are vanquished by the soothing and invigorating proprties of this restorative.
TO PERSONS WHOSE HEALTH IS BROKEN DOWN.
When the flames of life wane and quiver from exkaustion, administer this famous restorative. It will once more become steady and strong. In the debility which follows violent fever, in diarrhoea, dysentery, dyspeptic complaints and cholic; in the weakness consequent upon natural decay, or
resulting from free living or over-exertion, and also in those resulting from free living or over-exertion, and also in those
painful and too much neglected ailments to which ladies are exclusively subject, the Bitters never fail to give permanent relief.

## C.ALIFORNIANS

Should test the merits of Dr. Hostetter's Stomach Bitters. While it is highly palatable as a beverage, it is unequalled as a tonic and invigorator. In the pursuit of a fortune at the mines, many persons are exposed to attacks of complaints of the digestive organs, and of various kinds of fever.
It is the very article that has so long been in demand at the mines.

## FEMALES.

Thousands of ladies resort to it as a remedy for hysteria, futtering of the heart, nervous headache, vertigo, general debility and all peculiar disturbances and derangementa to which, as a sex, they are subject. It cheers and lighteus the depressed mental powers as well as strengthens the body, and its use is never followed by any unpleasant reaction.

> A WORD TO THE AGKD.

In the decline of life, the loss of vital force consequent upon physical decay, can ouly be safely supplied by some vivifying preparation which recruits the strength and spirits without entailing the exhaustion which is always the final
effect of ordinary stimulauls. It tones the stomach, improves the appetite, acts like a charm upon the spirits.

BOTH SEXES,
Who suffer from general debility, without any physical
pain or other symptoms of a deranged organization, will find great benefit from their vivifying influence on the frame and constitution; and where there is a deficiency of vital force they communicate the energy and vivacity which nature has The feeble supply.
The feeble girl, the ailing wife, the nursling nother, the vertasked man of business, the man of pleasure, under the reaction that follows over-exertion, and all who have a predisposition to paralysis, will do well to resort to this incomparable tonic and restorative.

DR. HOSTETTER'S STOMACH BITTERS
Should be in the possescion of everybody in the mining region. As a preventative against various diseases to which the gold seeker is liable, it has no superior. In all cases of Diarrhoea, Dysentery, and the pervading fevers consequent upon exposure, the Bitters will be found invaluable as a corrective.

## COUNTERFEITS.

Counterfeits are said to be the homage paid by knavery to success, and from these left-handed compliments Hostetter's Stomach Bitters have not been exempted. Vile imitations of the article are abroad, and the public are earnestly requested to be on their guard against them.
Sold by druggists and dealers everywhere.
HOSTEITER, SMITH \& DEAN,
Sole Agents for the Pacific Coast.
227 Montgomery street (Russ Block), San Francisco. [au28

REST The following letter, which emphatically speaks for itself, was written by the Dean of the Faculty of the Philadeiphia College o Medicine, to the editors of the Paciac Medical and Surgical Journal, for publication:

Phlladelphia. January 17, 1862.
Jourual-Geotlemen: My aitention
To the Editors of the Pacific Medical Pourual-Geotlemen: My attention bas been called to an article in the necember number of Your jourbal, in re-
gard to the ad eundem degree granted by the Philadelphia College of Merticiue to Dr. L. J. Czapkay. When the application for the degree was made to
the Faculty, it was accompanied by affidavits and test imonials to the offect the Faculty, it was accompanied by affidavits and testimonials to the effect
that Dr. Czapkay was a regular graduate M. D. of the University of Pesth, had served as a surgeon in the Hungarian army, and was a regular pracliaderndem degree, as its namo implies, is conferred on graduates ouly, and gives us uew privileges. Had there been the slightest suapicion of irregular-
ity, the application would bavo beeu refuced. By inserting this in your ournal application

Yours, very respectully,
Deallege and confer a favor on
$H$. RAND,
DR. L. J. CZAPKAY'S Private Medical and Surgical Institute is on Sacrapany's offee, San Fradcisco. The Doctor ofers free consultations and asks no remuneration unless he ffects a cure. Office hours from 9 A. M. to 9 P. w.
Certifichts,-I, the undersigned, Governor of Hungary, do testify hereby,
hat Dr. L.J, Czapkay hils served during the contest for Hungarian liberty, that Dr. L.J. Czapkay hus served during the contest fir Hungarian liberty, as hief Surgeon, in the Hungarian army, with faithful perseveranco. Whereof atention and protectiou of all those who are capable of appreciating patriotic sell-sacrifice, and undeserved misfortune.
Washington City, January 5th, 1852.

F. G. BEPLER,

PRACTICAL COPPERSMITH,

Whilst thankful for the former confidence bestowed upon me, I desire to thing in my lime of business : especially all kinda of apparatus used in Brew. cries ind Distillorles; also. all such as are used where steam, spirits, or pumps of any kind be required. Also, Kitchen ateasils for Hotels, Restaurants and private houses, Baking apparatus for Bakers and Confectioners,
as well as all other kinds of copner work. as well as all other kinds of copper work,
All orders from the country promptly attended to.

I. O. E. KLEPZIG \& CO., GUN Makers,
and dealers in all
KINDS of GON MATERIAL
SAN FRANCISCO
Opposite the Cubtom House,
Repairing done in a workmanlike manner at the shortest notico. jy 25


WRIGHT'S PICKS.
Jofn wrichr, or Sacramento, bas established himserf in San Frapeliso 3 for the manufacture of every debcription of IICKS, of the beat material, at reduced prices. Pris Eyes of tue best iron furbikhed in any quantity, as
low rates Orders from the country promptly atteaded to. N. B.-None low rates orders from the country pr
genuine unless stamped with my name.

OHN WRIGFT, s11 Market street,
Opposite Battery, San Fraccis
je20
$\qquad$
Homeateadg Chenper than Propnged under the Sharter
$U$ NDER TEE PROVISIONS or what is knowh s the Shafter BIIl, it is pro-
posed to sell the cily title to homestead lous for twenty. $i$ ive to two hun The undersignod will sell homestend lots within the limits of the city, and
miles nearer to the busmess centre than many or the luads covered by the miles nearer to the busmess centre than many of the lunds covered by the
Shafter Bill, and place the party in immediate poskession of the same, with-
 TITLE is absolutely PERFECT, being a spanish Grant, fanally contirmed and authorities respect it; the District Court and the Suprecme Court of the State, it ; besides the TITLE HASF BEEN FOREVER QUIGTED BY A FINAL DECREE AND JUGEMENT AGANSST THE (TYY so that there is not even a cloud or
shadow upon it. Whoever purchases one of these lots will buy a lot, not a IRwsult.
Office
$\begin{aligned} & \text { Office No. } 10 \text { Nagleess Building corner of Montgomery and Merchant sts. } \\ & \text { m22 } \\ & \text { HARVEY S. BROWN. }\end{aligned}$
TURNER, MARsH \& USGOOD, Successors to C. O. Turner \& Co., importers
of Wiues and Liquors, S. E. cor. Front and Sacramento sts.
ml
DALMER, HANSCOM \& Co. Golden State Foudry, and Machino Works.
(Formerly Sutter Iroul Works.) First street near Market.
my 23


H. HoFSH, Coffee and Dining Saloon, and Bakery No. 168 Clay street
C. W. THOMAS, Plaining Mill, California street, facing the Mission R . m , Sall Francisco.

K ELLY \& Wane, Importers and Dealers in Paints, Oils, Turpentine, Etc.
Cind $_{\text {TANFORD BROTHERS, Pacide Oil and Camphene Works, Office and Store, }}^{\text {No. } 48 \text { Front strect, near California, San Francisco. }} \mathrm{m} 16$


A JUURNAL OF MINING, AGRIOULTURE, MANUFAOTURES, SCIENCE, ART, CHFMISTRY, INVENTIONS, EICC.
VOL. VI. SAN FRANCISCO, TUESDAY, OCTOBER 7, 1862. NO. 3.

## TTELE TO Mmeral LaNDS IN THE PACIFIC sTates.

For the information of capitalists in distant countries who hare heretofore refrained from investing capital in our immense mineral lands, alleging that the laws of our States and Territories do not sufficiently guarantce security in the possession of mining property. To these we have a few facts to elucidate, which aro based on tho laws of the Federal Government, and the enactments of statutes of States and Territorios, as well ds local laws in every mining district thronghout the Pa cific Coust. The code of laws governing the right and title to mines on this coast, is precisely that of Spain and Mexico: the title to mines is vested in the United States Government; each State has the right to govern mining pursuits according to the general terms thereof, by enactmente of local laws or statutes, and each mining district has the right to agree upon a sot of rules and regulation, but these must conform to the general laws of the United States and the statutory laws of the State in which they exist; litigations and decisions are brought and ddjudicated according to this system.

In so far as the percefal possession of minerul lands are concerned, the Pacific States give ample security to citizens and aliens, and wo doubt it much whether any Europoan Government deals out equity and justice with more impartiality than do the Courts and Justices of tho Pacific States. The few eases now before the Supleme Court of this State and the Supreme Court of the United States aro fast becoming adjusted. The United States Government secures to every citizen and alion, individual and company, the right to take up mineral lands and work them, according to the terms and tenor of thelaws and statutes provided. Since no landed proprietorship exists in mineral lands, no hereditary title can be acquired. In the State of California a law exists taxing aliens, entitled "Foreign Miners' Tax," which is $\$ 250$ per month. It has, however, beon enforced only against the Chinese and coolies; aud it has recently been declared unconstitutional by the Supreme Court of this State.

We know of but one serious objection why capitalists should fear to invest in our rich gold, silver and copper mines, and this may be summed up as follows: The pernicious system inaugurated here of establishing immense companies with thousands and millions of dollars for the stock, predicted upon the belief (not upon scientifically explored mines or ming districts) of roputed rich leads or voins, with the view of throwing upon the com
mubity a handsomely printed certificate of atock, withayt the shadow of security. And here we muy remark that the laws governing mining companies or individual miners are not by half strin gent enough, and vory much requires amending The amount of work to be done on mines to secure possession, is not enough, and special legislation must soon intervene.

The quartz mines in the Pacific States are chief. ly worked by inexperienced persons, and when two or moro partios intersect their claims or approach towards each other in their tunnels, endless litigation ensuos, and oftimes bloody contegts result, thus ending with the destruction of much life and property. Special laws require to be passed cithor by Congress or the State Legislature, providing for a corps of mining engineors, geologists and mineralogists, whose duty it should be to examine every such claim ir dispute, and their decisions should be evidence befure the Courts.

Notwithstanding these disadvantages, which are merely the result of inexperience and circumstances, ushered into existence within the past fow years, no country in the world has ever presented a greater field for acquiring wealth, as the Pacific States. The gold and silver extracted from one or two countios in Nevada Territory during the past year has amounted to over ono million dollars per month; and, from present indications, it will not fall short of three times that amount in a year hence.

## A GOOD MOVE FOR POOR INVENTORS.

An excellent move has been made by one or more of our citizens to establish a scientific association and stock company, for the purpose of aiding inventors and discoverers in bringing before the public valuable inventions, which is to operate as follows : The society shall consist of a number of stock or shareholders, the amount of which shall be established at the adoption of the constitution, payable in montly instalments or dues thereto. The association will after a sufficient amount has been paid in, acquire with this means all the apparatus, utensils, machinery, library,
ett., requisite for making models, testing and etc., requisite for making models, testing and making experiments, and complete the ideas of inveniors who may not bave the means to do this themselves. The association is to undertake, after a satisfactory examination of the invention, and obtain a patent therefor, subject to conditions made between the inventor and the association; and from the proceeds and emoluments of such inventions, the society expect to receive dividends, at the same time furthering thie interest of the poor inventor.
On next Friday evening, at 8 . o 'elock, a meeting will take place at the Mechauics' Institute, - when a full attendance may be expected:

## BAD MANAGEDIENT IN CONDUCTING FAIRS.

We have repeatedly stated that the conduetors or directors of State and district fairs and exhibitions, do very little towards encouraging science, arts and manufactures. It is a fact well established that thousands of dollars are made up in purses for the best cow, call, horse, ateo, whioh requires scareely any science or skill to produce, when compared with a useful and novel piece of mechanism, which may have taken years of thought and labor to finisb, and the application of which would cause economy of time, labor and profit, The most an artist or mechanic may expect for his skillful production, is a diploma, or a medal probably not worth $\$ 5$ !
The various associations abroad have been noted for eneouraging.the sciences and arts; hence the mechanic and artisan have an incentive to produce inveritions which will hand down his name to future generations, and the advantages arising from his production may prove beneficial to the whole human race! We can only account for this shortcoming by surmising that the mechanic and artisan are not solicited to take part in the organization and proceeding of such aissociations.

California Quicksilver. - Without quicksilver very little gold could be obtained from the mines of any country. This metal is a most subtle searcher for gold. Quartz, in which not a trace of gold could be observed by the naked eye, has been made to yield $\$ 250$ to the ton of the genuine metal, and all by the quicksilver "llicking it up" and forming it into a pasty mass. Quicksilwer is to the miner what steam is to the engineer. Californi2 posssesses extensive quicksilver mines, from which she not only supplies not only supplies her own miners, but furvishes the liquid metal in large quantities for the miners of many other couutries. The exports of quicksilver from San Francisco since January 1st up to August 1st, have been as follow:
China, : 8,674 flasks $\left\lvert\, \begin{aligned} & \text { Peru, - - } 1,258 \text { flasks } \\ & \text { England, }-1,000 \text { " }\end{aligned}\right.$ Mexico, - 7,837 "" England, - 1,000 Australia, 1,050 " New Yark, 625
$\begin{array}{lr}\text { New York, } & 625 \\ \text { Vancouver, } & 99\end{array}$
Total,
21,552 flasks The Chinese use mercury for making that beautiful pigment vermillion.-Bell's Nantical Mayazine.

Thanks-To our Honorable Representatives A. A. Sargent and T. G. Phelps, for Patent Office Reports on Agriculture.


Henry Clay Co. have located the first north extension on the Vesuvian Lodes Nos. 1, 2, 3 and 4, and the Old Town Co. have located the first north extension on the Mohamedan Lodes Nos. 1, 2 and 3. There are some fifteen tunnels now running into these mines sout Clear Creek, and from the rock shown therefrom, and the fact that a steam mill is now being constructed for the purpose of reducing the ore, we are of the belief that good and reliable mines are found near to Carson City. We have seen an assay of Max Zorer No. 1 rock, showing $\$ 7647$ in gold and $\$ 1,23242$ in silver $-\$ 1,33889$ per ton. Also assays from Max Zorer Nos. 2 and 4, which show from $\$ 527$ to $\$ 550$ per ton, and one assay from Mt. Moriah Lode No. 2 as high as $\$ 415$ per ton. These assays are all made from rock taken at from two to ten feet from the surface. These mines are only about three miles from Carson City, with a good graded road direct to them; having the advantage of water-power sufficient to propel thirty mills with ove hundred stamps each; timber for the mines; lumber for the mills, buildings, etc., and thousands of cord-wood at from two to three dollars per cord-all about these mines, affording advantages which none others have in the Territory.
The mill, formerly Stewart \& Hennings, js now owned by Messrs. Raymond \& Thompson, who have torn out all the old apparatus and put eight seven. inch tubs in, with a view of working ore by the "sage brush process." They have also two of Wheeler's new invention of amalgamators, which they have put up for the purpose of testing as to their adaptability and utility in saving wetals both of gold and silver We have the authority of Mr. Hrss, a gentleman of much practical experience in such matters, for saying that they are not only a success, but are destined to nork a complete revolution in the mode of amalgamating, throughout the silver mines. This mill is running from eight to sixteen of the twenty-four stamps, but has not tubs enough yet to put the mill to its full capacity. They tock out 91 pounds of bullion last week; it was the product of 40 tons of the third class of Ophir rock. Such a rock was formerly counted as "re fuse," but since the introduction of appropriate machinery and reliable modes of working silver rock, it pays remarkably well, and gives another assurance that we have millions if tons of pay rock in ledges partially abandandoned, and in rock which has beretofore been "dumped " away as useless. The mill is now in excellent condition and will, undoubtedly, give good satisfaction to the owners and the public. Its ca pacity, when completed, will be about 25 tons per day.
'The Ellsworth company's mine, situated about a mile south-east of Silver City, is turning out a large amount of good and some first-rate ore. In one apartment they got about three tons per day of ore that will pay $\$ 150$ per ton. This is kept by itself while all the rest goes to the mills just as it comes from the mine.
Mr. Welch has commenced work on the great Ophir tunnel, which is to strike the ledge one thousand feet below the surface.
Esmeralda.-The Star of the 13th inst. says: Last week the following mining companies were incorporated, and the articles sent on to be filed in the office of the Secretary of State:
The first North Extension of the Winnemucca Gold and Silver Mining Company, 1200 feet; 1200 shares; capital stock, $\$ 120,000$. Trustees, Dr. John Ives, Geo. Smith and
The Colonel Corcoran Gold and Silver Mining Company, 600 shares, $\$ 60,000$ capital. Trustees, P. G. Vibbard, 'I

The George Emmett Gold and Silver Mining Company 600 shares; capital stock, $\$ 60,000$. Trustees, Dan. Morgan B. S. Mason and P. G. Vibbard.

The Vibbard Gold and Silver Mining Company, 600 shares ; capital stock $\$ 60,000$. Trustees, same as preceding

The Doyle Gold and Silver Mining Company, 600 shares; capital stock $\$ 60,0000$. Trustees, John Doyle, B. S. Mason
The Isaac Gold and Silver Mining Company, 600 shares, capital stock $\$ 50,000$. Trustees, Robert Isaac, B. S. Mason

Stock Quotations.
[corrected wekkt for tie "priss."]
E. O. Taylor. McLaughlin and B. S. Mason company and P. G. Vibbard. and P. G. Vibbard, have cities of ten thousand inhabitants, and produce bul have cities of ten thouzand inhabitants, and produce bul-
lion at the rate of fifty million dollars per annum. This
may be extravagant, but we believe it will be rather may be extravagant, but we believe it will be rather under the mark than over it. No ope can now accurately guess at the future magaitude of our progress, becanse not one in a thousand gives to the mines their true palue, or adequately comprehend their vast wealth. As the truth gradually dawns upon the public mind there will be a corresponding expansion of ideas until the whole truth is revealed, or until the fountains of our wealth have astounded and bewildered even ourselves.
Considerable excitement has been manifest about the Clear Creek mines during the last wfek. The Georgetown Company have located the first north extension from the Porto Plata Co's claim on Porto Plata Lodes Nos. 1, 2 and 3. The Break of Day Co. have located the first north extension on the Gilead Lodes Nos. 1, 2, 3 and 4, the Syrian Lodes Nos, 1, 2,3 and 4, and the Barcelona Lodes Nos. 3 and 4. The EI Dorado Co. have located the first north
extension on the Barcelona Lodes Nos. 1 aud 2. The
The Silver Age of the 5th inst, thus holds forth : No one-not even the oldest resiaents here-could surbring himself up to a just conception of their vast wealth now, or what they will be a few years hence. It is impossible, because there is no parallel or premises from which to
reason. People are astounded that a desert conntry like ours, but three years ago aluost uninhabited, now contains more than twenty thousand inhabitants; has cities of two and three thousand people; mills in great numbers, of un equaled size and prodnctive capacity, and mines yielding at least twelve million dollars per annum, while nine-tenths of
the really valuable claims are not yet developed. Our progress has been wonderful, but we, ourselves, cannot believe or surmise what mighty strides we will make in a few years to come. In three years we predict that our Teritory will have a population of at least one hupdred thousand; will

## Ophir

Gould \& Curry
Central
California
Wide We
Wide West ..
Sierra Nevada
Daney
Chollar
Potosi
Lacerne
North Potosi.
St. Loui
Real Del Monte.
Mount
Rogers.

Few, even of our own citizens, are fully aware of the incalculable wealth of Plumas county. In the early days of California the class of miners who came to this county, was in no wise different from that which diffused itself throughout the mining regions of this State. Placer and river diggings were all they sought after-each one was anxions to make his "pile" add then return to the Atlantic States-1hey came but to ravish the country and then desert it. But many, very many, soon learned to love the land they came to destroy. And these cast about them for a more permanent location than was afforded by the shallow surface claims, which could be worked out in a few weeks. Then it was that hills and deep diggings were tried-tunnels were run, and long ditches dug, at a great expense; for the purpose of conveying water along the sides, and even up to the tops of the hills; bydraulic power was used to detach the earth and debris from tho precious metals ; and a new era in mining was inaugurated. The Mount Pleasant, Spanish Ranch, and a number of other ditches of lesser note were constructed between '53 and '58, and the hills of Plumas were forced to surrender large quantities of their long hidden treasure to the industrious and enterprising miners and ditch owners-snd Plumas was in a most flourishing condition until the Fraser River excitement broke out in the summer of '58, when many of our nomadic miners left their valuable claims to seek new fields. But the majority of those who left were in the condition of the dog in .Esop's Fables, which was crossing the stream on a $\log$, with a piece of meat in bis mouth, and seeing his own shadow in the water, let go the piece he had and jumping at the shadow, lost what he possessed and found nothing in return. Hundreds soon returned, and Plumas county began to be more thoroughly prospected. It now became evident that the numerous quartz lodes in which our mountains abound contaned untold treasure. Washoe had been discovered with her fabulous wealth—and this gave a new impetus to this system of mining, and men turned their attention to developing the quartz lodes of ont own county: their efforts have been crowned with such success that this county, at no distant day, is destined to become one of the most important mining counties in the State. Already the Eureka, Mammoth, Seventy-Six, and other quartz lodes, have been prospected and found to be rich. The Ellis ledge was discovered in Round Valley, and it was found to be but one of a great number of equally rich lodes in the same locality. Rich gold and copper lodes were discovered in Gennessec Valley-and now we hear of new and valuable gold bearing quartz lodes being discovered at Rush Creek, Rich Bar, Taylor's Creek, Indian Valley, Nelson Point, Twelve-Mile Bar, and, in fact, nearly every other portion of this county.-Standard.

The Colorapo Mines.-The area of the Colorado mines is extending, and is supposed to embrace the Apache country, in which event the white prospectors will eventually bring on an Indian war. The first mines are in the foothills skirting the Colorado river, and several miles from the stream. The gold is gathered by dry-washing, water being so scarce that it is packed from the river or from wells for drinking purposes, and sold for $1 \bar{n}$ and $2 \overline{0}$ cents a gallon. A town called Olivia, after Miss Olive Oatmau, the Indian captive, bas been laid out, and contains about a thousand inbabitants. Gold rates at $\$ 16$ per ounce, butis said to be worth \$19. A Recorder has been elected. No Fhinese, Indians or negroes are allowed to take up lots. The new community may be regarded as the corner stone of a permanent settlement in that region.

The certificate of incorporation of the Moss Gold and Siler Mining Company was tiled in the County Clerk's office on the 18 th inst. Their mine is in Story countr, N. T.
Tanning.-No less than 200,000 hemlock trees are an-
Tanning, -No less than 200,000 hemlock trees are an-
nually cut down in the United States for tanning purpos es

## Mentul Epidemate.

In Frazer's Maguzine for April, this year, speaking of m+ntul epidemics, an article conelutes thus:

The question of course sughests its If. What probability is there of a periouli al recurrence of popphar dehasions such as th se to which we have here adverted? What secuity aguinst them is ufforded by extended education and advancing civilization? In our upinion, we do not hesitate to confess it, none whatever; not even were education as generally diffused as n's most ardent advocates would desire. It is at
least a stgnificant fact that Scotland and America, the two countries in which education is perhaps more general than in uny other, have been foremost in these cutbursts of fanaticism, and have rivalled or even outstripped Ireland in the lengh to which their extravagances have been carried. Must prople have by this time surrendered the once pupular tonet that superstition and fanaticism were to be forever dispelled by the lisht of seience.

Filucation and so-called general enlightenment are. in truth, utterly powerless in the presence of spiritual emotions; even the growisg skepticism of the day offers no bar to them, if it dues not actually prepare men's minds for them. It is true that most of these delusions, of hater years, especiully, have been restricted chiofly to the lowest and least educated classes ; but a little reflec ion can scarcely tail to force upon us the conviction that the ligher und better edacated have owed their immanity rather to accidental circumstances and the peculiar forms which these delusions have assumed, than to any security conferred upon them by their position and mental cultivation agaiust the grossest absurdities of credulity and superstition. Recent experience, indeed, bas given much cuuntenance to Dr. Babington's remurk, that "among the educated classes the uffiuent are more credulous than thuse who are dependent on' their own exertions for support." It is a puint in which the extremes of society might be said to touch. The wilder forms of superstition and fanaticism have flourished at one end of the social scale -the scarcely less extravagant fullies and absurdities of mesmerism, table-turuing, and spirit-rapping, have found th ir dupes in the other: the intermediate class, the merchants, trudesmen, and, speaking generally, the members of the learned professions, in this country, at any rate, have been uninfluenced by either. We do not remember anything less creditable to the good sense and intelligence of English society thau the belif in table-turning, so general a few yeurs ago. Spiritualism, which bids fair to take its place, involves graver questions, though its pretensions appear to us to be abundantly refuted by its own monstrous absurdi
ties. But we must not enter into this subject ; possibly we may recur to it on some future occasion.

## Tho New Ironsides.

The iron-clad frigate is so far advanced that she will make a trial trip on Monday next, after which she will be taken to the Navy Yard and dismantled before proceeding to sea. On Saturday the engines of the frigate were in operation, and worked salisfactorily. Her machinery is of great power, consisting of two horizoutal direct-acting engines, with cylinders of fifty inches in diameter and thirty inches stroke, intended to make 85 revolutioas per minute, and to drive a brass four-bladed propeller, of thirteen feet diameter and eighteen feet pitch. The boilers are foyr in number, known as horizontal tubular, each being seventeen feet front, eleven feet deep and eleven feet high, of a collective force of 1600 horses. Though the boilers and machinery and coal bunkers occupy considerable space, there is ample room for the officers' quarters and the accommodation of the crew. The New lronsides has but three decks-the orlop deck, in consequence of the high draft of the frigate, being dispensed with. On the spar deck the circles have been laid for the pivot guns, and the joiner's work is in a very forward state A number of joiners are at work on the gun deck, fitting up the captain's quarters, which are spacious and well lighted No other officer is allowed a cabin on this deck, but all, from the lieutenant down, are quartered on the berth deck The cabins of these, with the ward rooms, are ready for oc cupancy. The total number of officers on board the Ironsides is about thirty. These include the commander, lieutenants, masters, surgeone, chaplain, engineers, lieutenant of marines, midshipmen, master's mates, paymaster and clerk; boatswain, gunner and carpenter'.

Though the Ironsides is the same tonnage as the Wabash she will not carry as large a crew, inasmunh as she is to be dismantled before going out. The armament of the trigate, consisting of sixteen 11 -inch Dahlgreen guns on the gun deck and two 200-pounder Parrott guns on the spar-deck, has been received at the yard, and will be put on board as soon as the iron carriages are ready. This week she will receive her coal and ordnance stores.-Phil. Ledger, Aug. 4.
Snow Spots on the Eastern Slope.-As an evidence that the last was an unusually severe winter, we may mention that large fields of snow are still visible from Carson City, a oircumstance which bas not occurred on the 1st of Septem-
ber for many seasons. Some places in these snow felds ber for many seasons. Some places in these snow fields are
said to be 20 feet deep yet, so that there is no probability said to be 20 feet deep yet, so that there is no probability that the snow will melt off this season.-Silver Aqe.


## EDITORIAL CORRESPONDENCE

## Tour through Sacramento, Folsom and Linooln.

Piacerville, Sept. 15, 1862.
We left San Francisco elated with the hope of breathing once more the salubricus mountain air, and bid adieu for a short while to the bleak winds, sand and dust of our great metropolis. It has its charms as well as its ills, and we chose it "for betteror for worse." The Chrysopolis, that floating palace, glides swiftly through the bay and up the Sacramento, where we arrived after a sound "snooze." The thermometer must have been $110^{\circ} \mathrm{F}$. at the capital, which makes everybody puff and blow. Sacramentans, despite their late reverses, seem buoyant and sanguine of their future and that Eden seems again in its wonted splendor, abound ing in luxuriant gardens and shade trees throughout the euburbs. After a short sojourn at the crack hotel, the Ebner House, we took leave of our friends, and "rolled on heavily" towards Folsom. Mine host, that social "cuss" of the Patterson House, received us well and hospitably. The insufferable heat does not seem to abate, and we were compelled to have recourse to our white donnings, which caused us immediate relief. Folsom, as will be seen elsewhere, is one
of the most prosperous towns in this State, presenting many
natural advantages to the enterprising; but its present pop ulation seem anything but literary, scientifically inclined, o willing to listen to matters pertaining to their benefit or ad vantage. Through a polite invitation, we attended the or ganization of a new Odd Fellows Lodge at Lincoln, Placer county, entitled Valley Lodge No. 107. The services occupied "all night till broad day light," with danciag and colation, wine and toasts. Lincoln is the terminus of the C. O. R. R., a very pleasantly situated town, seemingly in a pros perous condition. Stages in every direction wend their way from this point. Teams and conveyances are laden with freight and merchandise through the well-known forwarding houses at that place. Hotels and accommodations are ample. The surrounding country is thickly settled and the agricaltural pursuits are flourishing.
We leave it, and take our departure for Placerville, El Dorado county, and the usual courtesies are denied as by that opulent stage company. We are somewhat disappointed at the bad state of the roads at this season of the year Mining is being prosecuted with but little energy-here and there only are claims being worked: the majority have no water. Placerville is a splendid mountain city, surrounded by verdant hills and mountains, many of which are being worked for their metallic riches, paying handsomely to their enterprising owners. Although mining has been but superficially carried on, and is by many miners believed to be "played out," which is far from being a fact. Little work in this vicinity, and would readily yield from $\$ 15$ to $\$ 20$ per T'he Pacific Quartz Mill appears to be the only successful establishment of the kind here. The placers, ravines and gulches still pay moderately good wages where water is bundant.
The city of Placerville contains from 5,000 to 6,000 inhabitants. It is situater in a valley, dirided into Upper and Lower Placerville. It is the entrepot of San Francisco and Nevada Territory, where all the travel and freight seem to form a centre and stopping place, and where the great trunk of the Pacific and Atlantic Railroad must come.
The great thoroughfare, Main street, is neatly laid out, and substantial buildırgs and edifices are studded symmetrically thereon, which for architecture and convenience do not fall short of San Fiancisco struclures. We were agreeably surprised to find the Cary House the first hotel in this city, in every respect equal to the Lick House of San Francisco,
in all its appointments. The affable proprietor, Mr. Cullen, has but recently returned from the Atlantic States, and is now the sole proprietor. This hotel contains 80 spacious apartments, capacious halls, beautiful parlors, dining salooqs, etc., all of which are well ventilated, and provided with gas,
The Cary House is a three story fire-proof brick edifice, The Cary House is a three story fire-proof brick edifice, situated on Main street, Lower Placerville. The chief business change, postal and express matters are forwarded and transacted, and the stages and conveyances halt and take their departures.
J. S.

Mr. Lapone has just completed the erection of another quartz mill at the intersection of the ravines in Silver City, and just opposite the McNulty mill. It is presumed that the entire winter will be consumed in building this mill, and

## SUTTER PIONEER TESTIMONYAL FUND

At a mecting of the Society of California Pioneers, held to celebrate the Twelfth Anniversary of the admission of Califurnia into the Union-
At the conclusion of the address of E. H. Washburn, Esq, Dr. Heary M. Gray remarked that as there was an unusually large number of the Society present, it was a fiting time to consider informally some important suggestions embodied in the remarks of the orator of the evening.
That portion of the audress having direct reference to General John A. Sutter, then elicited an interesting discussion. Mr. Sam. Brunnan then gave an account of a recent visit to the old Pioneer, and others warmly advocated the adoption of immediate measures for his relief. H. F. Williams offered a series of resolutions to this effect, to which some amendments were proposed. Subsequent'y the Society appointed Mr. Williams, W. B. Farwell, Dr. Gray and Rev. Albert Williams a committee itic revise the same, who reported the following, which were unanimously adopted
Whereas, Tho Society of California Pioneers are desirous of presenting to General John A. Sutter a substantial mark of their g.atitude to him for his many good and charitable deeds towards the early settlers of the State, and of the esteem in which he is held by his fellow-citizens at large : therefore,
Resolved, 'hat a committee, consisting of all the exPresidents of our Society, be, and the same are, hereby constituted a Committee to take the matter in charge, to appoint sub-committees, and prepare subscription papers, to be circulated for costributions to a fund to be judiciously invested for Gon. John A. Sutter.
Resolved, That the President, Secretary and Treasurer of this Society, and their successors in office, be, and the same are, hereby constituted a Board of Trustees, to receive and invest all funds which may be received in furtherance of this bject.
Resolved, That copies of these resolutions be forwarded to all the newspaper editors in the State, with the request that they will publish the same, and urge upon their readers the propriety of contributing something in aid of the fund.

We have been requested by the Committee, and it affords us pleasure to give place to the above action of the Society of California Pioneers. It is understood that Gen. Sutter, the most distinguished of the early settlers of this State, has, through the generosity of his nature, and that unsuspecting probity which always attends on conscious wortb, been deprived by the shrewdness and trickery of unprincipled men, of the ample competency which he had secured for himself and family, by his early toils, hardships and labors, in the settlement and reclamation of this country;-Insomuch, that his condition is now said to be one of almost absolute want and destitution.

General John A. Sutter may be, in fact, considered as the Pioneer of California. It was he who received so cordially and treated so hospitably at his fort, on the Sacracramento, the first expedition of citizens of the United States to this coast. made by Col. Fremont, in 1846. Fremont, in his Journal, speaks of him in highest terms of commendation. It is, therefore, exceedingly appropriate that the Pioneers should do him honor, and, if need be, give him aid in this his hour of trial and distress. He received and kindly fed and sheltered our worn-out and famishing countrymen, debilitated and exhausted by the sands of the desert and the snows of the mountains-at a time, too, when relief was salvation. It was also from him that much useful information was obtained by the first explorers, pelative to the character of this country. It was, too, at Sutter's mill, it will be recollected, that the first gold was discovered in 1848 ; and hepce the joyful news went forth which startled the nations, as it pere, from the lethargy of ages. It was in digging the race at Sutter's mill that the first discovery was made which has in the course of twelve short years, placed California by the side of old and papulous States.
Who, then, will nat say, "All honor to the good old chivalrous Pioneer?" It may be well said that this State is more indebted to him than to any other iudividual in its wide circumference. We then say, God speed to the good work ; and all honor to the noble Pioneers who have set this ball in moţion.

Laoe Manufacture.-'The growth and importance of this branch of industry may be learnt from the statements made by Mr . W. Felkin in 1856 . He calculated that the returns fram the Lace Manufacture exceeded $£ 4,000,000$ a year, the number of hands was 135,000 , and of machines employed 3500. The machines are now estimated at 4,000 . By the ariginal mode of making lace upon the pillow, five meshes of "plain net" could be made per minute ; 40,000 meshes per the finished pieces was 40s, the square yard; in 1856 , 6 d .

## LASD FOR THE MLLLIOS

If anrman is in the posiession of a tract of land of not Less ihan to wer more than 320 acres o laua, or tavens where there are such tracts iha be would lise to parchase, that are not owned pasessai by ary uther person, the following in formation may be both useful and desirable
The Trited States srstem of surreriyg dirile the State juto squares of six miles eacl, called Townsitips, anci suldirides these into squares of one mile each, called Secrions, as the foilowing diagram will show:


BJ 4 cts of Con gress, the 10 tis and 3ith sections in each fall township. and due propor tions for the fractiomal tomuslips, are domated to the Siate for common school parposes,
And where the 1 unh or 3uth section is incluaded in a mil? jtary or other reserre, or in a private grant, the Suate has the pririlege ot selectiog ant uther seco tions in the proper land distriet, in lieu of such reserved or appropriated sections.
By Act of the Legislature of this State, approved April 22d. 1E61, sections 16 and $30^{\circ}$ in each sownseif. and orber sections taken in jera thereof, are anthorized to be sold at the low price oi one dutar and ement- itre ceats per acre, in legai subdirisions ot 10 to 820 acres.

IThen the purblazer desires he can par only 20 per ceat of the purcbase rioner, anif iex fer cert interest of the defered poyment, in adraper. and the balauce in one, tro, theee, or more reares as a future Lesis?
In the San Francisco Jana disiric: there are 600,000 acres of these school lands for saie: amd as orer 2 micho acres of isese sections 16 and Ŝ6 are inculuel in prirate grants, otber sections and parts of sections can te sefected in lieu thered.

If the paticalar tomestip in wi:hct the lana sought to ke purobased is situatek. tis teen "esee tonized" br ibe Cnited Etatas iben ait the ap pluart bas to de is to mase afpliation diece: to the Srate Loeativg A acot in Sun Francisoo. wlo bas blauks for the purpose, containing ibe fillow ing certificate, which has to be verified by the ap plianat

- I, __, of -_, being dul sworn. depose and sar that I am the appicari for :la puncase and Socation of the abore described Iands: and zhat. to the best of mo linonledze am 3 beief there is mo ralit claim existing upon the lan ì so ceacribej adrerse to the claimin hold aud appty to be lozated: sEd that there is no improre nept of amy kind of description upon saiû land, other than mr orre.

A eimenser certiticate. as to the chaim to the land has to be meade br two mitnesses.

The applisarioi being spmed and smorn to, the Loating Agert then miles avplication to the Regster of the [nned States Land OEve for the land sought to be purchased, snd on his aecent ance ot tie same, ile aprlicutiou of tie part aut also the aceen:apue of the Peptitar of the tinize States Lave Ofice are forwarded to the T.S. Sur refor-Gederal at Satamedto, wion on examination, and if found correct, approves the same, and returns Lis approral to ibe airlicang who, on its reoeption, and within fifty days from the date of the Surreror-General's antoral, pars to the Treasure: cf the goaptr in tizich ite land is situated, either the full swomat of one doliar atid
 puri-ise worer. in 10 per cerínimeresi on tibe deferred parment as be nar yrefer.

İ ile quantitr of land aiphiea for is 180 acres
and be prefers the 20 per cent. parment, it will te as follows
150 acres. at ei 2i por sere. 24 jet cent of alis amiont is
Learing a defered parment of.
And lüjer cent. ou this amciant is
sicono
$4060-81000$
$\$ 16000$

## Makiog the ârsi parment for the rear

At the end of a rear he pars $\$ 16$ more, and so on eacls rear, until he chouses to par the balance, or the Legislaiure shall direct it to be done by law.
In case the land sought to be purchased is situsted in a :omskim that has not been sectionized by the Initel Siates, then the person desirivy to purchase makes aphliation to the Countr-Surreror of the prorer countr. desiring lim to make: surver of the partivular tract selected: and when made be delivers to the appie nta certizuate containing a flat and felld nutes of the tract. Which be presents to the L anting - Age:m and then the proceedings are the same as before. The lar requires that no less inan 160 acres Shall beapiol for at the Thited Siates Resis trar's ofice. Tet itro or more pirsons mar aryis at the same time to the Losting Agent for trutis of fü acres, or more, that lie contiguous, and in ibe agregste make 100 acres.

## Leander Ratsom

State Locating Agent San Fraccisco Land Dis't.
materiall: augmented-a great amount of capital Will be jirested, and the miners, and the working classes gene:ally, can find no better feld than this new Territort. Humboldt district is coming out xilelr, and hids fair to exceed even the section 1600 kroinn as $1 T$ ashoe. But bullion of any amount Las not ret been received from that quarter. Esmeralda interesis seem to revive with celerity.

## NEW PEBLICATIONS

Pate's Age of Reason Retietwed, by Wm. H. R. Wood. Esq. This little pamphler purports to be a defence of Christianity against the attacks of intilulitr. The author reviews the subject with considerabie ability, but we doubt much whether be cau win back the unbeliever who reasons, by means of irguments he may bring to bear against such a work as that which he attempts to refu:e.
Nem Latt Jorrnal. - A dew octavo pamphlet, entitleù Cu" .uruia Law Jourrnal and Literary Rerienc. ina le its appearance resterday (Monday). Dr. Tm. H. R. Tood is the eutior. The people of Califurnia, certainly, cannot complain of lack of reaüing. Three or fur periodicals bave sprung into existence within the last fortnight. We can scarcel? beliere all these publications will be sup-


## SEAM DIGGIXGE.

The snnexed ivosuration presed's a rough idea represcot ing the moule of minizg in till seams berring riol uef usits o goid. In the coanty of El Doracio. st a flace cained Spadisb Iry Dieginge in the inothills of the sierra Nerada. im nebseit jib bill claims tore furbilked formaes. The na-
 calur. rancige frim red iu black. anu remarkably soft and triable Tré tisaures or reine ran as abuat an ancle of $15{ }^{\circ}=$ and lar farailel to lie luyers of guar'z or rocke composing tie hills a strarge feature yariculcir ubserted iE, itai the reins an the mestera side if the Lills are onls metallic bearing. पlile thase on the easiers side are eatirely devuid of metals. Is the rear 1ai9. two Kentrchians reuilzed di5 ponods of nearly yure gold Tir das rir a period of ten diys. Mr. G. M. Hantur is Int ibe lissee. Sereral importan claims are lucsted is this ástrict. Midipg is carried on by Eahing rancels in the dircetion of the ceams and the ore is uhen mashaj ino the sinies. It Stube, of Gejrcetumb. is the prifuctit at ve di ch compap in alat districk Among
 weil-

Thate Mililoñs of Brilios per Monqe!The Territory of Neraia, that erest ard mealih! gold and silter spet suareer marled on the geographical maps of Europe, will furnish no less taam se incong in sírer and goid fer mon in
 sociations recemil? formed in this Sirte ani Ne. rada Territore, ite amount of bullion must be
ported: the sale for the best of them must be limited: if the compensate for the moner, time and labur necessarils esprenied on them, ther will do better than we anticipute. In fact, We lack the foruiation. Of our 500000 inhabitants, only are-Lundredth Fart are strietly a reading classand the majoritr of these are amply prorided with Atantie andे Eiropean journals. Besiues, every count in the Siate has an exponent in the shape f a newspaper, many of which are ably edited.
Incozn, Placer Cotent.-A few days since We risited this prosperous 10 wn , it being the terminns of the California Central Railroad The town is Ermmetrieal? laid ort, and promises to become thic cirs Sacramento Valler. Commereialiy speaking, Lincoin presents many adranthees over other noted places in the ricinity of Eicramento, and the leading formarding and commission houses seem to be up to the importance hereaf. Already the curreat of freight is mending its war in that direction, and the amount of travel is considerable Stages leave there for erery direction in the State and for Nerada Territurr. Te should like to liear of the finishing of the railroad to Marrsrille. When this shall hare beer accomplished, we bespeak for the people of Lincoin a great achievement.

TBe Natical Magazine, br Capt Bell, is
fur Cut.: It. It ciscusses some interesting matters pertainidg to nautical aftinirs-commerce, matters pertaining to nautical afturs
insurance, and insurction to seamed.

WM. W' DESN'S PATEST ROCK DRRLL.
The accompanyiny rock drilling machine is an ingeneous invention, particularly valuable to the quartz miners on the Pacific Coast. The engravine, though coarse (it not being exeentel at our offiwe), yet presents the mathine sufficiently plain and comprehensive. The inventor is Mr. Wm. W. Dunn of this city.

One man with this machine can do the work of about four men in the orlinary way. It is portable, made eutirely of iron, and weighs abont 80 pounds. Its prineipal use is in mining operations. Placing the machine in the shaft or tumnel by screwing nut the screw on the end of the expanding stanchion on which it is supported, and thus bracing it firmly between the top and bottom, or
one end-with, at the other end, standards supporting the drilliner machincry, by which the drili can be operated horizontally, perpendicularly, or in any direction. The drill has a regular turning motion, at each blow, feeds forward fast or slow, (at the option of the operator, ) as the character of the rock requires: the rate of advance can be varied instantaneously. The blow is struck by the drill being drawn back by cams, thus compressing a cylindrical indiarubber spring, which expanding projects it with great force. The number of blows per minute is only limited by the durability of the steel drill, 120 blows is the usual rate. These machines can be operated by hand, horse or steam power. A 4 horse power engine operated by one man drives a machine capable of urilling 4 to 6 inch blast holes, 4 feet deep in

sides of the tunnel, one man can with ease work the machine and turn the crank 40 times per minute, and the drill strikes three blows for each turn, giving 120 blows per minute. This machine has been successfully tested in the Eastern States and this State, where the hardest rocks abound.
This machine occupies so little space that in a tunnel five feet square two of them can be worked, equivalent to eight men, when but two can work, in the ordinary way-not only a great saving in cash expenditure, but also of time, is effected.
A one horse power machine performs the labor of 12 men.
Mr. Dunn is also the agent for Mr. Gardner's patent of a portable steam engine, to be used in connection with the above drill. It consists of a
truck frame on wheels, bearing a steam engine at
granite, or 6 feet in bard limestone, per hour.
The cost of drilling the holes is reduced to onetenth the present expense, while the whole saving on a rock excavation of any extent, cannot be less than 50 or 75 per cent. on the entire work.
The one horse power machine performs the labor of twelve to thirteen men, in driving bed-rock tunnels and open cuts. It is worked by atmospheric pressure and ventilates the tunnel at the same time.
The band drill is another form of machine, by use of which one man can do the work of three. It is expressly adapted for tunnels, galleries, shafts, etc.

For particulars address Wm. W. Dunn, Fremont street, near Market, San Francisco.
(Be Bound volumes of this journal for sale at this ofico

## to aining companies.

We earnestly solicit from mining companies and associations the fullowing blank statement, filled according to the data hereby accumpanying. The purpose for which we seek this information is importaut to every citizen and stockholder on this coast ; it would also be prodnctive of beneficial results-i. e., inducing cupitalists to invest in our mining operations, thereby infusing new life and vigor into business generally in our States and Territories. Little, if anything, is known of our metallic wealth in Europe or the Eastern States, hence we desire as much of the blank filled by you as may be interesting and instructive to the people of this State and those interested abroad.

We know of no mining district in Europe or America where this kind of information is not willingly rendered by parties owning property of this nature ; and we know of no better medium for making public the richness of our mines. We shall send blanks to mine and mill proprietors for every quarter, and will gladly publish the contents for the information of the community:

| $\begin{array}{c}\text { Title of Company and sames } \\ \text { of officers for the year. }\end{array}$ | $\begin{array}{c}\text { Am't ef shack \& value } \\ \text { per share. }\end{array}$ | When incorporated |
| :---: | :---: | :---: |


| Lucatiun. |
| :---: | :---: | \(\begin{gathered}Arerage ussays <br>

of ore.\end{gathered}\left|$$
\begin{array}{c}\text { Process employed } \\
\text { and number of stamps. }\end{array}
$$\right|\) Gederal remarks.

Routes and Fares from San Francisco to Foreign aind from San Francis
Domestic cities.
Pacific Mail Steamship Company-Steamers leave for New York via Panama, on the 1st, 11th and 21st of each month. 1st cabin, $\$ 250$; 2d cabin, $\$ 200$; 3d cabin or steerage, $\$ 100$.

Nicaragua Steamship line, Ross, Dempster \& Co., agents. -Steamers leave for New York via isthmus of Nicarggua, on the 21st October, and semi-monthly thereafter. Price of fare not yet stated.
To Portland, Victoria, \&c., \$60. Crescent Eity, Trinidad, \&c., $\$ 20 \$ 30$. San Diego, Monterey, and Los Augeles, $\$ 20$ to $\$ 30$. Sandwich Islands, per sailing vessels, $\$ 100$ to $\$ 150$. Australia, sailing vessels, list class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, 1st class, $\$ 200$ to $\$ 250$. Mexico, $\$ 30$ to $\$ 50$.

California Sleam Navigation Company dispatch steamers daily to-Sacramento, $\$ 5 \overline{\text {; }}$; Stockton, $\$ 4$; Petaluma, $\$ 3$.
Overlend Mail Company - Stages leave daily for St. Louis via Salt Lake ; fare, $\$ 200$.

The North Pacific Review.-This quarto monthly made its debut on the 1st inst. The work is neatly printed; if contains a well executed and life-like engraving the late James Donahue, Esq. The reading matter, both original and selected, is choice, nnd will prove interesting to the general reader.

LEANDER RANSOM,

## CIVIL ENGINEER

 AND SURVEYOR,Having been connected with the public works of the State of Ohio for 20 years, and the public works of the
State of California for 7 years.

State of California for 7 years.

## ALSO, STATE LOCATING AGENT. <br> And as such having the sale of

600,000 ACRES OF THE STATE SCHOOL LANDS, At the low price of $\$ 1,25$ per Acre.
Torms-Twouty-Rive per cent. in cash, and the balance on a credit of
feveral years. several years.
OFFICE: Second floor of Lexpress Building, N. E. corner of Montgomer
oct-3m California, ktreets. avd California, हtreets.
oci-3m

## JULIUS SILVERSMITH,

## COMMIISSIONER FOR NEVADA TERRITORY.

## OFFLCE, IN LATE STATE CAPITOL,

Corner of Battery \& Washington sts., Room 23, up stairs:
W WoUld respectrully solicit from those who have busage in all malters requiring the official action of a Commissioner-such as the drawing up of afidavits, ackuowledgments, the taking of testimony, etc.
STANFORD BROTEERS, Pacific Oil and Camphene Works, Office and Store,
SNo. 48 Froat street, near California, San Francisco.
ml6
[From the Silver Ago ]
Letter from our Conmissioner to the World's Fiair.
The-following letter has been received from the Commissioner of Nevada Territory to the World's Exhibition, London, by his Excellency Governor Nye, to whom we are indebted for a copy for publication. It will be remembered that our Legislature at its last session made an appropriation of five hundred dollars to defray the expenses of a Commissioner to represent our Territory at the
Great Fair; a sum insufficient, as was understood Great Fair; a sum insufficient, as was understood nothing of the other expenses of any one undertaking the journey. But our Legisls.ture, in view of our many home wants and the slender revenue of the Territory, did not feel warranted in making a larger appropriation at the time. That it would have been good policy to have sent on at least two or three well selected men accredited to that mission can hardly be questioned, judging from the tenor of this letter. Finding no other competent person willing to make the journey at so great pecuniary sacrifice, Governor Nye appointed Mr. Jo-
seph Mosheimer to the Commission. The selection was a good one, this gentleman being an old resident of Washoe, and thoroughly acquainted with its wants, resources and future prospects, besides being a practical metallurgist and owner in our mines:

London, June 22d, 1862.
Gov. J. W. Nye-Dear Sir: In my last letter to you I mentioned my visit to Washington, after tination, arriving here on the 15th May. My first business was te ascertain who were the American representatives at the Exhibition, and found Mr. Holmes Acting Commissioner for the whole Department, which consisted of a place in the eastern corner of the building about the size of the Contra Costa Agricultural Rooms. Mr. Holmes endeavored to procure more room but without success. If found
it difficult to get sufficient space wherein to place a glass case containing my Washoe collection of ores. I found some specimens of ores from our Territory already here, which togetber with my own made a very creditable show; and, I think, we can justly claim to have surpassed our mother State of California in this respect. She sends on three Commissioners, and has on exhibition only a small pump from Mr. Hansbrow, of Sacramento. The ores I have on exhibition are from the Ophir, Mexican, Gould \& Curry, Chollar, Gold Hill, Sacramento Ledge (Silver City) and the Daneybeing some of the richest samples ever taken from these mines. I have also a large specimen taken from one of the leads in the Esmeralda district, and a number from Humboldt. They excite much curiosity here, attracting the attention of moneyed and scientific classes in a special manner. Sir Roderick Murchison, the first geologist of England, was much interested in the collection, and invited me to his house to have a talk about our Territory. Two days ago the Prince of Wales came to our court, and Sir Wentworth Dilke showed him our ores. I opened the case, handed him the several
samples and explained to him their character. He examined them with care, thanked me for my trouble and departed, bearing himself in the most modest and unassuming manner.

It is a pity, both for the credit and welfare of our young Territory, that certain parties largely interested in her mines, did not see fit to act more liberally in the matter of sending on samples of ores and otherwise giving encouragement to the Exhibition. As an excuse for this narrow course of policy, the president of one of our mining companies assured me that he did not think itexpedient to let the politicians have thech light in regard to the riches of their mine. There are those, howevor, who would be greatly benefittee by having
value of their claims daly understood abroad.
Silver mining is a wakening more interest in this country now than ever before. They have more confidence in it here than in gold mining, in which many were heavy sufferers by their trials in California.

The question is often asked what title have we to our mines. On being assured that they are on

Government land, every one is satisfied. They are afraid of the Spanish titles which have caused so much trouble in California. I am surprised to find how little is known about our Territory, not cannot credit the statement thal we take out about a million dollars' worth of silver every month. This is because so little is said about the matter in the public prints, and all the precious metals raised in the Pacific States is accredited to California. There has been but little published about Washoe whereby the monetary and scientifworld could be intelligently informed. Were our resources and situation well known here we could readily command the means for building a railroad to California, as well as all needed capital for opening and working our mines-a condition that would greatly increase the value of every species of property in the Territory. To illustrate how little is known of our progress, even among
intelligent classes here, I may mention that I found it difficult to convince a gentleman who had examined our mines in 1861, that we had now fifteen hundred stamps running; because, as be said, it would take years to accomplish this. I only convinced him by showing a list of the mills now running or in course of erection in the Terri-
tory. There is not much useful machinery for mining purposes on exhibition here, and I am of opinion we could teach these people something in the business of gold working.

I am your Excellency's ob't serv't,
Jos. Mosheimer.

## From the Coso Mines.

We copy the two subjoined lettors from a late number of the Visalia Delta:

Willow Sprivgs, Coso, Sept. 15, 1862.
Editor Delta:-I notice from your paper that the people of Tulare Valley have finally aroused to a sense of duty and interest by commencing a trail across the mountains from Visalia to this place, and other mining localities in this vicinity. It is only surprising that they hare not done so long ago, for every observer must have known that Tulare Valley is the natural market for tbis whole country, if the roads and trails were made passable for freight trains and teams. The trade from the different mines on the Elastern slope is fast growing into importance and must, from all appearances, soon be immense. Large amounts of goods, \&c., now come to us by the way of Los Angeles, which naturally should pass through Visalia.

The Coso mines are opening out in the most satisfactory manner. The Josephine lead has a shaft sunk on it about 75 feet deep, and the vein is much larger and richer at that point than any place above. There is no doubt that this vein is exceedingly rich. The Winoshick, Watab, Caledonia, Docow, Great Eastern, Great Western, and many other leads in this district, are turning out remarkably well. To work these successfully, silver machinery is necessary, and Mr. Hitchens, the owner of several of them, and the proprietor of the Pioneer mill in these parts, has started to San Francisco to procure a "process" and pans which will save the stuff that our veins doubtless contain.
The Lotta mills are doing a fine business crushing Josephine rock. Hitchens' mill is principally used in prospecting the rarious leads which are being opened in different parts of the mines-some of which will be heard from soon in a manner to astonish the oldest man in the community.

The Indian troubles have finally ceased to scare the timid or to retard our progress, from the fact that a military post has been established on Ow. ens' river, and we all foel secure in our lives and property and the pursuit of happiness.

The news from Owens river is encouraging. The Union mill has started, and all looks well. Persons continue to arrive daily from the Slate Range and Argus districts, who bring with them "unmistakable evidence of the boundless wealth of these places.
From the signs of the times, next summer will be a lively season on this side of the mountainsthe sound of the quartz mills will be heard in one continuous clatter from one end of the range to
the other, and the returns of the express men will
mow that Tulare is not only the finest agricultura and grazing portion of tho State, but that her shines are unsurpassed in any quarter.

Coso.
White River, Sept. $16,1862$.
Mr. Editor:-Thinking that you may wish a little more information in regard to the extent, richness and locality of the late discovered gold mines (in quartz) on the north fork of Kern River, I embrace this opportunity of affording you all I can from actual observation, and from what I have heard from athers on the ground. Shakspeare says "there is a tide in the affairs of men," \&c. How beautifully true. It is an ever rushing cur. rent, which some try to stem, while others glide along in its eddies or down stream with ease, to that final destiny awaiting us all-no matter how good or bad the result, in the estimation of those who live, they must acknowledge the equality of the bone-yard : for with all our greatness we leave but little shadow behind. But whether it was flood or ebb tide that rushed me from the classic shades of Tailholt, over the rugged and romantic cliffs of Kern River, the future must determine in this letter. Perhaps it would be well to give you a description of the country passed through before reaching the mines, together with the events that incidentally transpired in a trip tbrough a country so little known, even among ourselves, although perhaps of but little importance.

The first place of note after leaving White river is Linn's Valley, which shows unmistakable evidences of the late deluge. Acres which were last year covered with grass, are now strewn with drift wood and buried in sand. Still that does not mar the beauty of the valley, nor depreciate the value of the farms much. A change bas also come over the spirit of its industrious and frugal inbabitants, for this year, at election, they gave a Union majority, where last year it was furiously and bitterly secesh. So much for the dawning light of civilization. The road completed last year by the Linn's Valley people over the Greeaborn mountain, is at the present impassable for wagons. Marsh's mill on the top of the mountain, is partially destroyed, and whether they will ever use it again for crusbing quartz or not, is uncertain, as quartz mining in the neighborhood is for the present suspended. The view of the surrounding country from the top of the second summit, going towards Kern River, is grand. The river winding along through deep chasms, the mountains and abrupt declivities looming up towards the heavens, and covered with stately and silent pines, impresses the mind with the grandeur of nature and the power of God, and makes a picture impossible for pen or pencil to describe.

Greenhorn went Union this year - another change. The road from Greenhorn to Keysville is very rough, though I passed people taking wagons with them and going to Owens River; and, from some little and big domestic ovidences they had along with them, I think they will be comfortable over there. Upon my arrival at Keysville I could not but notice the silence of the city, espe cially after living in the busy city of Tailholt. The cause is said to be the fact that all the inhabitants belong to the Good Templars. There are seferal business houses in Keysville, also two hotels, at one of which I put up, without being asked if I had any baggage, or to pay in advance before sampling their hash. A liberal style-though in some places the landlords would consider it dangerous. Now for the mines. After going up Kern river from Keysville about nine miles, the first evidence of the new mines that attracted my attention was the quartz mill of Rogers, Caldwell \& Co., on the north side of the river-a water mill. They were cleaning up the battery when I arrived, and obtained some thirty pounds of amalgam from rock crusbed in four days, which I think is very good, considering that the eapacity of the mill is only about three tons in 24 hours. The gold is worth $\$ 15$ an ounce. The rock has to be burnt before it is crushed to obtain the gold from it, as it is full of something that prevents the quicksilver from taking hold of it, unless it is burnt. [Sulphur, prob-ably.-ED.] The most of the leads are within half
a mile of tho mill of the first discoverers，but somo aro about two railes above and below．In the vi－ cinity of the veins a person becomes surprised and interestod to seo such masses of rock on tho sur－ face，which havo been walked over by tho minere for yoars，without examination，for tho reason that no quartz miner ever dreamod such stufi contuined gold．It doos not look liko quartz，although tho veins are well defined on the surface，aud perpen－ dicular，and varying from one fuol to forty fuet in thickness．Tho small soins，which thoy aro now working，pay from $\$ 100$ to $\$ 300$ per ton．The 40 feot vein prospects，from threo diffurent runs of rock， 816,819 and $\$ 22$ to the ton，across the vein． The rock is blue，closo grained，and filled with grey sulphurets．The workers of the mines find it impossible to select the rock，as they would be as apt as not to seloct the poorest for the richest． Ono cannot see gold in the rock until after it is burnt，and little then．Men who are experienced in quartz jmining say it pays moro regularly than any rock they ever saw．Time and labor will de－ volop the permanency and extent of the mines there，and if they run deep and continue the same in richness and thickness，this will be the richest quartz district in the State．The veins are all close to permanent water privileges．There will be three mills in operation before spring，put up by the owners of veins here，and I think it is a splendid opportunity for a company to put up a mill to do custom work，as there are thousands of tons of good rock in sight．They are continually find－ ing new leads，which shows that there is still a good opportunity for prospectors．The prospects at Coso，from reliable authority，is really beyond the expectations of the most sanguine． at present．

No mor
Yacob．

## The Cary House，Placerville．

We present herewith an illustration of this first class and splendid hotel．This edifice was erected by Mr．W．M．Cary in 1857，and is eligibly situated on the corner of Main and Quartz streets．Eighty commodious，well ventilated，well

ighted and finely furnished apartments，with fine parlors， dining saloons and halls，are offered the traveling public．It is most centrally located，and adjoins Wells，Fargo \＆Co．＇s Express，and is near the Post Office．John W．Cullen is the most affable and accommodating of hotel proprietors． Stages and conveyances leave daily from this house to all parts of California and Nevada＇＇erritory．The greatest care and attention are shown to the patrons of the house，and we found the terms as reasonable as could be desired．

Curious Petrifaction．－The Panama Bulletin tells this curious story：
＂It will be recollected that about four years ago，Mrs． Kearney，wife of the late Mr．James Kearney，died in this city．Her husband，at that time being a merchant in As－ pinwall，had a zinc coffin made，in which she was placed，and also a quantity of alcohnl，the whole then imbedded in char－ coal，in a still larger coffin，for the purpose of preserving her， as it was her husband＇s intention to have her sent to Eng－
land ；but shortly afterward he took sick himself and oiel， land ；but shortly afterward he took sick himself and äiel， and also his child．The body then remained in the cemetery undisturbed，until a short time ago，instructions were re－
ceived from her relations in England，to have the body ex－ ceived from her relations in England，to have the body ex－ the body was found to be petrified and perfectly marble－like， but，strange to say，as quick as the air got to the body it clanged to a light copper color．＂
An egg was opened in Grass Valley recently，which con－ tained within its white portion a smalier egg，fully formed and with a shell on it．

Tue Indentrall School．－The Fourth Annual Report of the Board of Managers of this institution is before us $\mathrm{It}^{\prime}$ contains many features of interest to the citizens of this city as well as the State at large．There are ut the present time 52 imates，being an increase of 22 over last year，＂thus proving that the class of boys and girls for whose reforma－ tion the Industrial School was created，is numerous in our city．＂The causes of commitment are ：Leading au idle and dıssolute life， 40 ；petit larceny， 9 ；vagrancy， 2 ；grand lar－ ceny，1．That it is working well，it need only be mentioned that with the increase of 22 the expenses have been but little ahore the past year；and while the number of escupes was last year 16 ，this year they only amounted to 3 ．It seemis， also，that they have found the correct stimulant to encour－ age good beharior，that of rewarding the ohedient with con－ fulence．And we believe it is the experience of all teachers of the young that without confidonce in the pupils，success is impossible．
While we have schools for the man of letters，the mel－ chant，the navigator，and in some instances the agriculturist， none for the encouragement of scientific mining is on our coast，though of all countries here，where our main wealth is minerals，scientific mining instruction is most needed Why should we not have this branch taught to the growing up jouth？This，with the subject of industrial selfools should engage the attention of the instructors and support ers of the rising generation．
Reciamation of Swamp Land．－The Stockton Indepen－ dent says of Mr．Carpenter，à farmer in the swamp land of San Joaquin county：
He has been experimenting with levees and ditches for the last five years to protect his land from the annual overflow of the Calaveras，and finds it as necessary to have inside ditches or drains to carry off the rain water as to have levees or embankments to keep off the overflow．He runs his em－ bankments in straight and parallel lines－one through the centre and one on each side of his land subject to an over－ flow，and makes them three feet in lielght by twenty feet in
base．These embankments are used as roads in wet weather when the surrounding ground is boggy and impassable for When the
horses．
Mr．

Mr．C．eays the water will find its way，to some extent through the oldest and best levees，and that hew levees are of but little use the first year．It requires immense labor and patient industry to reclain the low，flat land on the lower end of the Calaveras ；but Mr．Uarpenter is not only setting a good example to the owners of such fields by the exercise of good judgment in bringing it under tillage，but is laying the foundation of an independent fortune．

A certificate of incorporation for the Banner G． \＆S．Mining Company was filed last week in the office of the County Clerk．Its object is to conduct the business of mining on a certain vein or ledge known by the name of the Last Chance Hill Vein， and located in the Esmeralda mining district．Its
Trustees are－Jobn W．Tucker，Gardner W．Case， Trustees are－Jobn W．Tucker，Gardner W．Case，
A．F．Mitchell，George W．Funk and Henry How－ ard Welch．The term of existence is placed at 50 years，and its capital stock at $\$ 800,000$ ，divided into 2,000 shares．

## Regarding Patents．

We desire to call the attention of all those who intend applying for Patents，to our superior facilities for obtaining the same．Our arrangements are such that we can have all the papers prepared，transmitted and returned，with the Patent Right，in three months from the time the applicant places the matter into our hands；thus saving at least three months delay．
The expense to the applicant would be rather less，if the business be done by us，than if the papers were sent to New York or Washington．
Thus by patronizing a home institution，our inventive itizens can save both time and money．
We have prompt，intelligent and reliable agents in the city of Washington who attend punctually to all Patent business sent to them．We have agents，also，at London， Paris，Brussels，Hamburg，St．Petersburg，Berlin，Vienna， and other European capitals．
We have also now associated with usin our business Wm．H．R．Wood，Esq．，whose well known legal acquire－ ments，and practical care，punctuality and correctness，emi－ nently qualify him for business of this kind．Dr．Wood also acts as general agent for all persons having business to be attended to either in this city or Washington city．

Hunter＇s Ghain Separator．－We saw this new invention in operation last week，and it performs the work in a thorough manner．It is calculated for separating any kind of grain，but is more espe－ cially adapted for wheat．The wheat to bo cleaned on this occasion contained a large quantity of oats and chaff；and after passing it through this ma－ chine it was quite clean．The grain to be cleaned top，and from thence passes down two inclined planes which are moved with a uniform notion from side to side by a crank．The upper plane has four compartments，one over the other，which are pierced with boles．The oats and barley in the wheat pass off into a box at the further end； and the wheat and chaff comes down in front－the good clean，wheat falling into one box，and the small stunted grains and chaff into another．Bags are hooked under these boxes，and as soon as filled are taken away and supplied by others．There is no waste in the operation． 600 sacks of wheat can be cleaned in a day by the large machine which is now in operation．Mr．Hunter is now building separators of a convenient size for farmers＇use which will cost $\$ 100$－and we could see that it will be a very useful machine for them．Every farmer is anxious to bring his wheat to market as clean as possible，for the price he will get for it will be in proportion thereto．By this machine he is ena－ bled to bring not only a clean article，but a good article，for it will have none but the good plump grains．The imperfect and broken grains and chaff make excellent chicken feed；or ground，it is considered equal to barley for horses．It is a Cal－ ifornia invention，devised by a practical farmer， and was patented in 1861.

## Gird＇s Budding Kuife．

This invention is one of the many Californie has thus far produced，and is certuinly deserving of her，it being the most useful and practicable for the purposes designed．The hor－ ticulturist who once adopts this knife will find its value so evident that ever after its services will be indispensable， since with it much labor and expense are saved．In speak－ ing of it the Scientific American says：

The above engraving illustrates a knife which is calcu－ lated to facilitate materially the process of budding．Upon the ends of the blades are formed crescent－shaped crosses of steel with fine edgee for cutting the T－shaped shtitin the bark of the tree to be budded．These blades with their crosses are made of different－sizes，so that some one of the three may be adapted to the size of the tree to be operated upon．

It is the practice of some horticulturists to remove the bit of wood which is cut from the scion with the bud，and to insert the bark only with the bud．To save this operation， the round blade is formed with several curves in its edge，so the round blade the formed with several curves in its edge，so off the bit of wood，the curves being of differest radii to adapt them to scions of different sizes．

With this knife several operations are reduced to one， and the process of budding is greatly facilitated．The cres－ cent－shaped cross is pressed through the bark making the cent－shaped cross is then by simply carrying the knife down， transverse cut，and then by simply carrying the knife down，
the vertical slit is made，and the bark is raised at the same time ready to receive the bud．This knife was used in Cal－ ifornia during the last season，for budding several thousand trees，and it gave great satisfaction to the operators．＂
Those desiring to purchase will please address Julius Sil－ versmith，San Francisco，respecting terms，\＆c．
Stock and Exchange Board．－A regular Stock Brokers＇Board，upon the same general plan as those of the older cities of the Eastern States，has been formed in this city．The necessity for such an organization in San Francisco at present，does not seem to be very urgent，but the rapid increase of stock companies warrants the belief that the stock brokers may have enough to do hereafter． The officers of the Board are：J．B．E．Cavalier， President ；E．W．Teackle，Vice President ；Frank－ lin Lawton，Secretary；Henry Schmidell，Trea－ surer－－Call．
The Desenet News states that a cotton mill has been built at Parowan in that Territory，and that some of the ma－ chinery has been put up and is now running．A considera－ ble quantity of cotton is now raised in southern Utah，and it is for its manufacture into cloth that this factory has been

# 讯lining and Scientific giress． 

J．SILVERSMITH，Editor．
TUESDAX
．OCTOBER 7， 1862.
The 3GNLNG AND SCIENTIFIC PRENS is published at the State Capitol
building，Rooms 23 and 24，corner of Battery and Washington streets san building，Rooms 23
Francisco，Cal．，by
J．SIT，VERSMITH，Fiditor．
At FurTY Cenas peamonth，or \＄4 per annum，in advance．
Advertisements，Fifty Cents per line．
Engravings，Electrotypes，etc．
Co Wr execute at this Office Eugravings and Iiiustrations on Wood，stone， oription－Buildings，sketches of Towna，Machiner：＇，Stamp Dles，Seals for Plain or Colored Printing．
JOB WORK－executed with dispatch at the cheapest rates．
PATRONs will remember that when we execute ongravings we will insert
them free of charge in the Misma and ScIENTIFIC lakss，thus giving the ad－
 vantage of a Wire Circulation throughout the Pacific Coast in the best Ad vertiging Medium to be found mothe country．

## OUR MINES．

We have tried in vain to find out how our mines are paying．＇Tis no use，our miners won＇t tell．－ San Juan Press．
This conduct has ever characterized California， and may continue for an indeinite period hereaf－ ter，until the Government shall enact laws for col－ lecting revenue from mining sources．Though we are far from advocating such a moasure，yet we cannot with due deference to our almost impor－ erished Government，withhold the fact that many are now taking out their thousands from placer mines，\＆c．，without paying an adequate proportion of the taxes，as compared with the trader and me－ chanic．We should not be surprised to learn when Congress convenes in 1863，that an effort will be mado to pass laws for the sale of mineral lands，to－ gether with enactments for the better，more per－ manent and successful prosecution of mining．The attempt was made at the last session，but was de－ feated．Many will howl and complain；and yet we are of opinion that the advantages resulting from such a measure will prove of incalculable ben－ ofit to the Pacigc States and the Federal Govern－ ment．At present，some 80,000 miners in this State pay but a small tax，comparatively speaking． Should the Gevernment undertalse to dispose of the mineral as it does the tule and agricultural lands，an immense amount of revenue would be realized at once．The mining population would then remain permanently on their claims；gold fevers and excitements of that nature，would be far from swaying them from their homes；they would contrive to work their claims in a systemat－ ic way，with a view to permanency and economy． The mining claims in Nevada county are rich，and the owners thereof have no plausible reason for withholding their yields．If we desired，we could easily obtain the aggregate amounts realized by means which they could not ovade ；and as it is，we get the semi－annual amounts through the mint．But from which particular locality the sev－ eral doposits come from，may for a time remain sealed to the public．
On the other hand，if the Government should conclude to hold the mineral lands，and instead thereof tax miners pro rata of what they extract from their respective claims，the results of the amounts extracted would bocome generally known at once，and the true richness of our golden land proclaimed．Commissioners and overseers ap－ pointed by Government would soe to it that the daily or weekly results are marked down．Besides sucb enactmonts，strikgent laws governing mining will accompany，having especial reference to the construction of tunnels，shafts，levels，\＆c．，and ac cidents resulting from carelessness in these matters shall be severely punished，by fine or imprison．
ment．If we are not in favor of taxing ininers，we are certainly in favor and would strongly advocate a systematic mode for prosecuting mining in this State．Other evils would in turn be reached by means of such enactments．

## OUR LATE REVERSES．

A humiliating spectacle for a protud and powerful people are the late reverses the Union armies bave met with in the South．They are enough to make a loyal man＇s cheek color with shame，and droop his head in sorrow．An army of rebels，in the main not mach more than half our numbers， and not near as well appointed，have not only driven us from the territory they claim as theirs，bat have advanced into the loyal States，and threaten our very Capital！Truly， it is＂carrying the war into Africa．＂It is useless to try to hide or overlook the fact－we have met the enemy and－ they have defeated us；and，to highten our mortification，we have not even the poor consolation of an excuse to offer in palliation－we must quaff the bitter cup without anything to mollify its severity．We have had a year and a half to recruit and discipline our forces－time which，we were told， was being improved；we exultingly adranced to the very trenches of the rebels，and only waited for favorable weather to attack and capture them．But instead of at－ tacking we were attacked，and instead of capturing we came nigh being captured，and were compelled to make an inglo－ rious retreat．That those at the helm of state are responsi－ ble for these disasters，no one conversant with the history of the past year will deny．The loval States，with unparalleled promptness and enthusiasm，responded to all the calls Gov－ erument made upon them ：they fumished money by millions and provided and equipped an army such as，in point of numbers and persunnel，has not been equalled by any one nation since the great Napoleon＇s invasion of Russia．And after all this outlay of life and treasure，to be beaten by an army confessedly inferior in point of numbers，who are labor－ ing under the conviction that they are fighting against the regularly constituted authorities－shows that there is culpa－ ble imbecility or gross mismanagement in the Administra tion．

Our soldiers are as good stuff and as brave men as tread the earth，composed as they are of the acknowledged bravest peoples in the world－Americans，Irish，Germans，\＆c．－and carry with them the moral force of knowing that they are in the cause of right and order．But they have－been given for officers men whose peculiar acquirements and experience in no manner fitted them for military leaders；men who know not enough of military science to manceurre a regiment on parade，let，alone lead an army into battle．And this was done not for lack of tried and able officers，（for many such we have，）but through execrable favoritism．＇THs true there are many honorable exceptions；but these latter were so shackled and their powers so limited，that they were un－ able to accomplish anything．

Our late misfortunes，however，have，we hope，awakened those at the head of the nation to a sense of their folly；and， if they wish the loyal masses to still retain a hope of seeing the authority of the Government established over the $8 e^{-}$ ceded States，they will bury personal jealousies，and recon－ struct the army in such a manner as will be likely to win the gratatude of our own and the respect of foreign nations． In a word，put soldiers at its head，and send home the politicians to attend their caucuses．And for the honor of the country，let us have done with this wrangling and indecision：do not be perpetually changing，remov－ ing and appointing－tearing down to－day what was built yesterday；for nations，like armies，are almost certain to become disaffected when the rulers show their incapacity to govern．
If these be done，instead of rebel hordes desecrating the loyal soil of Pennsylvania，in less than twelve months that sacred emblem of liberty，the beacon of the oppressed， the hope of the suffering patriot－the glorious Stars and Stripes，will not only float over Richmond，but over every fort and citadel in the South．
San Francisoo，Sept． 13.
Military Election．－On Saturday evening last，the Franklin Light Infantry elected D．M．Greene First Liell tenant，vice Stuart，resigned；and John T．Barry senior

## OUR INDIAN TROUBLES．

From various parts of the mining regions of the State aco counts are daily coming to us of the hostile attitude of the natives．Such a condition of things exercises a very inju－ rious influence on the productive industry of the country， Surely the difficulties，toils and hardships with which our mining population have to contend are sufficiently onerous， without adding thereto these continual apprehensions of the tomahawk and scalping－knife of the savage．
What are our namerous soldiery about，that some of them are not made to operate in this direction？We have now lying idle，in different parts of the State，sotne five or siz thousand military characters，who，so far as we can learn， have never jet－though they have been mustered into the service over a year and living upon Uncle Sam＇s＂pap＂all the tume－been called upon to perform the slightest active duty．A little exercise，we have no doubt，would not ouly be beneficial but very grateful to them；and certainly such exertion could not be directed to a more useful or humane purpose than that of terminating these Indian difficulties．

This has to be done either by the General Government or of the State and private enterprise．If accomplished by the former，they thereby save all the expense which will be at－ tendant on fitting out an expedition by the，State．Chis State has already large claims against the National Govetn－ ment for expedilures incurred in suppressing Indian hostili－ ties；and it is certainly not desirable that these clajms should be increased．It is well known that the General Gov－ ernment is responsible for all the expences necessarily in－ curred for purposes of this kind，as it has on various occa－ sions heretofore recognized．Why，then，when it has the men already under pay，and lying in idleness，could not the Government employ them in this way，temporarily，and thus save the expeuse of baviog these hostilities suppressed by the State．They could thus be more promptly as well as more effectually put down；whilst，at the same time，such a course would at once withdraw from those anprincipled whites，who are said purposely to excite these wars，all temptation and inducement to prosecute their unholy schemes；for if these hostilities are thus designedly excited by bad men of our own race，it is only with an eye to some future charges for mili－ tary services，that they may＂feather their own nest＂at the expense of the public treasury．
The Government could scarcely offer a more direct reward for getting up these Indian wars than by leaving them to be dealt with by the very men who produce them，and then pay－ ing the expenses out of the general treasury．If，however， instead of allowing them to be put down by private or State enterprise，the Government would，whenever they occur，send their own troops to suppress them，and call the guilty perpe－ trators of the first wrong to stern account，it would be ren－ dered impracticable to make them a matter of speculation by private adventurers．The United States troops now in California are doing nothing，and where is the excuse for thus allowing our most productive citizens to be driven from their homes and avocations by these Iudian outbreaks？why not reduce them at once to subjection and place them on the reservations for civilization？
The present is too critical a juncture in our financial af－ fairs，to permit the gold－bearing regions of Californa to be rendered thus useless and unproductive．It is almost alone upon the basis of the gold and silver mines of this coast that our present exorbitantly expanded paper currency must fiod a support－and every contraction of the field or diminution of the amount of their production，，most sensibly affects the wide circumference of the country．It is gold and silver alone that supplies the solid circulating medium of a coun－ try，and hence the Government is loudly invoked to see to it that the free and unembarrassed working of the mines of these precious metals is not interfered with in the slightest degree．We，therefore，call upon the military authorities of this coast to put down at once and forever these eternal and ever periodically returning Indian hostilities，and allow our hardy and industrious miners to pursue their vocations，at present so indispensable to the vitality of trade the prosperity of commerce and the general well being of the nation．They may thus render as great，or greater，service to the country than if they should meet and conquer the bannered foe upon the plains of civil war．

Will not the military commandant on this coast act on this suggestion，and thus save the national treasury at least two or three hundred thousaad dollars？Don＇t say you have two or three handred thousaud dollars？ not got the power ；take the responsibility．

A CHAPTER TO INVEMTORS AND DISCOVERERS.
The whole community is benefitted by the promotion of the nseful arts, and, therefore, it is for the public good to hold out the promise of rowards to the inventors of new and useful arts and manufactures, who may first put the public in possession of them. It is true that by such a grunt as a patont makes-a monopoly for a time-every other person is restrained during the continuance of the monopoly from using the invention, even if ho makes a similar discovery himself. But at the time the grant is made, it is by no means certaiu that the invention will be given to the public, or evon made bj any other person; and by the temporary suspension of their right, the people acquire the certainty of being able to use the invention at tho expiration of the monopoly. Utility to the public is, in fact, the consideration of every grant for the sole ase of an invention, and letters-patent containiog such grants always state tho public good to bo the motive in making the grant.

Hence, therefore, the total absence of utility to the public, in any invention, will at all times vitiate a grant of the sole use of it. But it will not be void on that ground if it were useful to the public, although such utility may be very small.

But an incention may be of some use to the public, and jet be so trifling or frivolous, that the inconvenience arising from a grant of the solo use of it would not be adequately compensated by the benefit which the public would receive from it. The law, therefore, has deemed it right that mere discovery of any new manufacture shall not vest the sole right to use it in the inventor; but that to be entitled to such privilege be must obtain a grant from the Government, who have the right of judging, not only whelher the invention is likely to be of sufficient utility to warrant its being made a matter of public concera, but also the duration of the privilege it merits.
. There is reason to believe, though it, is not positively known, that the practice of making grants of the sole use of inventions originated in England, and that it has thence been copied more or less closely by other nations. It is a power derived from the common law of England; and this law has been modified by statute in modern times $b$, th in England and other countries. (Hindmarch on Patents, 3.)

No person can be the grantee of a privilege in an invention except the true and first inventor. To be capable of supporting such a grant tho patentee must be the person who has not only actually invented or imported the invention, but who has been the first to give it to the public.

In England it is held that the first importer of an invention from abroad may have a patent. (Edgeberry vs. Stephen, 2 Salk., 447; Dav. P. C. 36.) This, however, is not the case in the United States. Here the inventor alone can get a patent. He is deemed the first inventor who first gives, or contracts by patent to give, a knowledge of it to the public. And the fact of first introducing an invention is prima facie proof of first invention. Although a patenteo's claim to be the first inventor will not be defeated by the prior discovery of the same thing by one who kept it secret, yet it is otherwise if the invention was known to be used by the public at any time before the date of the patent.

If the inventor himself publishes a knowledge of it, the law deems that he thereby dedicates it to the public; and when once the publication has
boen mado tho act is irrovocable, and a patent cannot be granted, or if granted will bo useloss. And if the public becomes possessed of a knowlodge of it by any means whatevor, no patent can bo granted.

## bad management in miving.

Our recent tour towards the Sierra Nevada has afforded us an opportunity of seeing considerablo mining enterprises, which from their simplicity and primitive modes, hardly entitles them to be called enterprises. The placer mines throughout California, it must be assumed, have scarcely began to be worked, although something like $\$ 600,000,000$ have been extracted since the year 1848, and countless millions are jet concoaled in the hill sides and mountains on both sides of the Sierras. Thus far only a scraping in the ravines and gulches has been the extent of mining, and when these had beon worked once or twice (some of which would even now pay from $\$ 3$ to $\$ 10$ per day to the hand), are declared "worked out"-despite after the periodical rainy seasons, when the same will, as before, pay excellent wages, which proves that the hillsides are yet pregaant with fine particles of gold. In our tour from Folsom to Placerville, we noticed many places abandoned on account of the want of water, and little, if any, worls was being done to prepare for the coming rainy season. We noticed but one ditch company, but their rates are held so high. as to preclude many from mining, unless their claims are extraordinarily rich.

The old mode of sluices and toms are still in rogue in this district. The current in the sluices is generally so great as to carry with it the fine atoms or scales in its course; only the heavier particles or grains of metal precipitate. The miners in and about El Dorado county seem not to have taken advantage of "Dunning's under-current sluice," as described in the Miners' Companion and GUIDe. If reconrse were had to this invention, together with increasing the width of the sluices and drifting the hillsides in every direction, from 15 to 20 per cent. more gold would be saved.

Though quartz veins abound in the vicinity of Plarerville, yet little onterprise is boing evinced to work them for their metallic wealth. One establishment only seems to be profitably engaged in reducing a moderately good paying lead, which renders on an average $\$ 15$ per ton in gold. It is owned by parties formerly of Nevada county, and is known as the Pacific Quartz Mill. Some fifteen members form this company, many of whom are practical miners, having worked in the Lake Superior copper mines. The reducing works are of an improved plan, being a 20 -slamp Bryan's mill, 30 -borse power engine, and utensils for working sulphurets.

A large field is still open in Placer and El Dorado counties for mining, and we see no reason why the complaining white man in these sections should allow the miserable Mongolian to quietly go to work and extract the precious metals from under his nose. The coolie, with his simple means, takes out enough to pay an enormous tax, besides onriching himself in a fow years, even after the claims have been worked several times over. It is equally astonishing to see that the municipalities, town corporations, or enterprising citizens in mountain towns, do not take advantage of making the coolies subservient to their interests; namely: these coolies are under the immediate surveillance and superintendence of companies in San Francisco, who have established agencies all over California, espe-
cially where mining is carried on, and the results of their labor and industry, with but few excoptions, go towards enriching those opulent mandarines. Now, every corporation or private company throughout California, might take up and prospect mining ground by hiring from mandarin companies their nominal slaves or coolies, who may be had in numbers at from $\$ 15$ to $\$ 20$ per month per capita. Sooner or later the laws regulating the Chinese tax must and will be so modified as to preclude them. from our mines, except when employed by white persons or companies. Aside from mining pursuits, their services might be profitably omployed in the construction of ditches, canals and roads-these latter, by the way, are wofully neglected. The present rates of wages are too high, ranging from $\$ 250$ to $\$ 3$ per day, and scarce even at this.

Altogether, the districts which we visited show lack of enterprise and judgment. The roads, with fow exceptions, are, for this season of the year, in sad plight, and if we had authority over the road overseers, we should condemn them to be hung for neglect of duty.

## URGENT NECESSITT.

The impending session of the Legislature will have to pass a law and provido funds for the establishment of a State school, in which the sereral sciences belonging to geology, mineralogy, chemistry, metallurgy and mining engineering will be taught by able professors. The expenses necessary for such purpose can easily be defrayed by imposing a small tax upon the 80,000 miners now employed in our mines, and these will willingly further the ends for such an institution. The want of such a school has long been felt, for many reasons, and we have hundreds of young men who would willingly pay for their tuition in these branches. Aside from the benefits which the poorer class of students would receive, and who are oither physically or mentally incapable for other occupations, when graduated students, have left the institute, they can be useful to themselves and the community at large, and their services in developing our mineral riches will more than com. pensate for the outlays of the State. The majority of our miners are devoid of the necoessary knowl-
edge in mining for the precious metals, and the greater part of them only know how to traffic in "paper stock." The State oabinet of minerals should at once be placed at the disposition of the school, and analyses of all the specimens should be made. The several scientific associations will, we are satisfied, render every aid to such a school. We are little known abroad for our mineral wealth, because we do nothing for the permanent and systematic prosecution of miuing operations. Gentlemen Legislators, your predecessors have been noted for squandering the hard-earned monies of your constituents; do you abrogate this pornicious practice, and give us a first class mining school, with a salaried professor for each branch, thereby you will merit the blessings and thanks of a grateful people, who are now groping in darkness while in search for the needy.

On Dir.-It is rumored about town that a new scientific and mining journal is to appear. If the parties were only aware of the up-hill work attendant on the building up of such a journal, unless they have about $\$ 20,000$ to invest without the shadow of return, they would keep their fingers out of the pan. The Mining And Scientific Press is too well established and sufficiently ample in furnishing the mining community with instructive reading matter. We have not made any money yet, and we cannot see how a new comer can supersede us in this particular.

## WHY WILL YOU SUFFER, YOU THAT ARE AFFLICTED?

DISEASES CURED WITHOUT 'THE USE OF MEDICINES!

THE DIRECTORS OF
The Electropathic Institute,
Offer those who would avail themselves of the researches into the arena of medical science, an opportunity to benefit thereby. Thus, by the application of an art totally differing from the usual routine systems of the day, Electropathy is now the favorite study and practice of the most learned medical savans throughout continental Europe. Every proof exists that the magnetic electro current reaches directly the nervous centres, the brain, spinal cord and nerves of sensibility and motion, the controlling agents of organic life. The application of this powerful and mysterious agent is thus made, uoder the guiding hand of experience, subservient to the alleviation of disease, restoring through the medium of the nervous system the normal functions of the various viscera. By this agent the pernicious consequences of converting that most delicate of organic tissues, the stomach, into a chemical laboratory or drug shop, is totally avoided. Thousands can testify as to its efficacy, and many have experienced its beneficial effects. When correctly administered, Electropathy is applicable to all diseases to which flesh is heir, but more particularly to complaints of the nervous system, Rheumatism, diseases of the Lunge and Spine.
The Directors have secured the services of Dr. JOSSELYN, whose improved Electropathic Instrument stands in advance of all others as a curative agent. This scientific Physician will be in attendance from 9 A. M. until 8 P. M., to consult with the afficted, and in all cases where he can conscientiously do so he will warrant a perfect and permanent cure. Those particularly who have exhausted the catalogue of medicines, will do well to call and consult him, and examine the certificates of cure which he has recorded in the Institute.

The above troublesome disease can be cured by electricity only; and Dr. Joselyn of the Electropathic Institute will warrant a cure, perfect and permanent, in a very short time, or ask no pay for his services.

## Consumption,

That awful and hitherto considered incurable disease, can be cured by the Electro-Maguetic treatment. The Electropathic treatment at once stops the ravages of this fell destroyer, and the cure commences from the first treatment. A cure in aill cases will be insured.

## Diseases of the Eye.

The Electric treatment is the only mode by which a rapid and permanent cure can be effected in Sore Eyes. It acts upon the nerves and mucous membrane connected with the eye, and the removal of morbid matter and all inflammation, produces a healthy action, at once restoring that va'uable organ to its natural state. A cure warranted, or no pay asked.

## Electro-Magnctic Baths.

Connected with this system are the renowned ElectroMagnetic Baths. Here let us caution the public against the numerous inpositions in the bathing line. The pure magnetic bath is one of the most effective aids in the removal of disease from the system, but if given at the wrong time is likely to aggravate trouble ; and cases have been known where the patient has been injured so badly as to require months to remove the injury. The only place where these baths can be obtained in all their purity is at the Institnte, where the resident physician will be always ready to examine and see that they are not unseasonably administered, and if not necessary, advise the requisite remedy.

Below will be found a list of the cases which have been successfuly treated by the Electropathic System, at the Intitute, during the last year:


## GREATREDUCTION <br> in RRICES <br> STANFORD BROTHERS,

121,123 and 125 California Street,
KEEP THE LARGEST STOCK OF ALL KINDS

## Lamp Stock,

And will Sell Cheaper than any House in this state LAMPPS,

CEINNEYS.

## wICKs,

CAMPEENE,
BURNING FLutd,
ALCOHOL,
TURPENTINE,
COAL OIL,
KEROSENE OIL
COMET TLLUMINATING OIL.
SPERM OIL
LARD OIL,
MACHINERY OIL, RAPE SEED OIL, Cemina nut o 1
UNSEED OIL, Rnw and Boilod,
poLar oil
SHARK'S OIL,
NEATSFOOT OIL,
TANNER'S OIL,
sce, sce., se
Our customers in particular, and the country trado generally, are requested
oascertain our prices before purchasing from traveling agents, as we will sell at less rates than they can afford to.


PHILADELPHIA BREWERY Second street, corner of Folsom, San Francisco, Cal.

## Helscher, \& Wieland Proprietors.

## T

 Love wpprise at tho same mornent our muny friends and patrnns that the ses, ou second street-the former residence of Capt. Fntsom where we shall endeavor to continue in furrnishing our uumerous parrons with the west ar-ticle of "Bier." We shall strive to perpetuate the good reputation for ticle of "Bier." We shall strive to perpetuate the good reputation for
promptitude and the failhrul execution of orders as heretofore, and there. by increase our custom.

Ne our
Nov.

## SQUARZA'S PUNOH HOME MANUFACTORY.

wholesale and retait,
Na. 44 Leidesdorff street, near Sacramento st. Branch at 408 Mnntromery street.

## FULTON FOUNDRY AND IRON WORKS.

## HINCKLEY \& CO.,

MANUFACTURERS OF STEAM ENGINES,
Quartz, Flour and Saw Mills; Cast Iron Fronts for Buildings, Mining Pumps, and all linds of Machinery,

47 \& 49 First Street,
BET. MARKET AND MISSION, SAN FRANCISCO
ALL kinds of Iron nnd Brass Castings furnished at short notice. Every
style of fuishiug to Iron wben cast.
Repairing to Machunery veatly done. Palera Making in its various forms.
D. B. HINCKLEY WM. E. WORTH. WM A. FIELD

## REMOVAL,


 Gold rock per day.
Gold and silver ore, and Sulphuret Assayers', or Silversmiths' sweepings
reduced or purchased. reduced or purchased.
COPPER OBEE- High
mys0
au14-3m
J. D. DEMAREST, M. D.,

Graduate of N. Y. University, 1848.

Professor of the theory and practice of Medicine, as demonstrated in the treatment and Cure of Special Diseases in this State, during the last thirteen years.
IN ALL THE BRANCHES OF BOTII THE ARTS AND SCIENCES, AS WELL Ias the Medical Profession, speciulity las ever been recognized by men of judicions retiection, as both progressive and instructive, for it is a perfectly
well demonstrated fact that nay individnal, however astute he may be, at. tains to an infinite greater degree of perfection by a thorough and perseverhig continuity to oue brauch of art. science, medicine, or mecladics, than if
he attempted to accomplish half a dozen-as in the latter cise he would be he attempted to accomplish half a dozen-as in the latter case he would be likely, nine times out of ten, to obtann at must but a very super ficial know],
dige of oither. In the practiee of medrcine or surgery, it unravele, simplifiee edge or ither. Io the practice of medncine or surgery, it unpavela, sinplifies plicated no aceunt of the numernus causes which prouluce them) which diseases of any hiod take upop the human system; operatigg ab ihey do frequently both on the mental and physiteal organs. It secks to recuperate and restore the functions to their naturul and rronor Eblutus, as well ns to vea.
tralize all autagonistic iufluences to which the sytem is continually subject tralize all antagonistic iufluences to which the sytem is contibually subject.
Certain it is, that while che busy affars of life seem to exhaust all our time and attention, the incipiency and progrees of discase, sometimes of dnugerous and fatal, character, appronch is atmost unnoticed. Slow in its progress,
but ingldfous in its course, a disease, or even che simplest disturbidee of of but ingldious in its course, a disense, or even the simplest disturbunee of a
siagle function, frequently becomes an affair of imminent dinger wheu least single function, frequently becomes an affair of imminent danger
expected. To this tho attention of the physician of spectalities is alwryo earliest given. With proper perceptive powers, adited to ample experience, sion as to the character of the ailment and the proper applinnces for its cure. This I have never found to fall. A remely properiy administered, and at the proper time, Is sure to clfect the oljject of its mission, provided it be dinot reiterate the old adage, that "Health is the eodorsement of Divinity," sent to us for our own benegt, and that we should unt for a roomedt disre. gard the secret udmontitins that tell us to beware, lest wo fall impercentibly into a labyriuth fiom which it will be much more dificult to escape than if We had glveu proper attention to ourselves before venturing so far. Consult
your plysician before it is too late; confide in him, aud you will save yourself an lutinity of sufferiug. Below will be found a few of the testimonials receive
previously to his loaviag home for this country in 1849:
This may certify that Dr. J. D. Demarest, by the assiduity and 1848. which he has given to his studies, ad his uniformly good conduct Justion me in believing that those aroong whom may be placed, can repose coue dence in his professional atlentions. Mots, Prof. Surgery N. Y. University.
Valentive Moter
I concur in the favorable impressions of my collengue. Prof. Theory and Practice of Mediciue, N. Y. University Martyn Parine, Prof. Materia Medicn, N. Y. Uuiversity.
This may certify that Dr. J. D. Demarest has been in my oflice for some time past, ard has attended a number of my patients for mo, with perfect mending him to aby person or persuns requiriag medical services. 1 caa also speals highly of his moral as well as professional character.
J. Wridon FEL, M.D.
New York, December 5, 1848.
I take great pleasure in recommending to the notire of all " whom it may concern," Dr. Demarest, a gentleman of first rute attninmerits in his professun; and a man in every way qualified to be trusted with the health sud lives of any body of men he may choose to jevin. I have bad his aequatut ance for a long time, and he has atteuded my patient for me wifh entire sa-
tisfaction.
N. Clumk Leninge, M. D.
tisfaction.
New Yo
(2). Being desirnus, above all thing, of rondering myself proficient in my prolession, I nessure my patients and tho public that I attend persounlly to all cases that come before me, either by correspondence or by personal ris-
its the strictest confidence and the atmost regard for professional hoter and secrecy alvays observed
Patients residing in any part of thus Stato can havo the remedies applics Be minute in the details of your case, as regards the duration of the complaint. symptoms, age, general habits of living aud occupation.
All fernate complatiots, of whatever nhme or nature, treated successfully Those ladies whose complnints maturally excile a hesitation in applying for
advise, may rest assurel that in most instances a personal intervicw is un necessary, as remedies and general instructione can bo administered through corrcopondence. Address, DR, J. D. DEMAREST, San Francisco, Cal,
Office-S. E. corner of Whshington and Sansome strects, over Uliman'e
Book Store, nearly opposite the Post Office.

A GENCY FOR PATENTS.-The undersgned having been long ea ments for attending to the interests of inventors at the Patent Office in Wasbington, offer their services for the securing of Caveats and Patents
also, will atten to the sales of Patent Rights, and to all matters colnected with patented iaven hons.

WETHERED \& TIFFANY, Offce, 410 Montgomery strest.

CHARLES R. BOND, (Jate City and County Assessor.I
REAL ESTATEAGENT
410 Montgomery street, San Francisco.
REAL ESTATE PURCEASED AND SOLD, LOANS NEGOTIATED
FREDERICK KESMODEL,
Cutler and Surgical Instrument Maker 817 KEARNY STREET,
Between Jackson and Washington streets,

## san francisco

RECEIVED a diploma at the Fair of tho Sechaules' Institute, Seplember R 1858, alsn in Sacramento iu 1861 for California made Cutlery. The atiention of those afticted with HERNIA, or Rupture, or any ole interested, is called to his new method of Gtting and adapting. Trusses to the different cases. It is a well kown faet that there has as yet been no system
of fitting Trusses. There are manu different atyles which have proven of $6 t t i n g ~ T r u s s e s . ~ T h e r e ~ a r e ~ m a n g ~ d i f f e r e n t ~ a t y l e s ~ w h i c h ~ h a v e ~ p r o v e n ~ g o o d ~$
in many cases, but they are all uncertain and camnot bo r lied on, and in severe cases are altogether useless. The following are some of the adrantages I claim for these Trusses a jore any and all others: First-The H'ad is forraed on the parts to be comprossed by taking a plaster cast. SecontHaving a correct model, it enables me to make the Pad of any desirable material, sucb us horn, ivory, etc. Third-The Pad 16 so adjusted to the
spring that no movement of the body will move or displace it. There are many other advantages. Examine and judge for yourselves.
FREDERICK KESMODEI,
ap3 tf
onrick kassoner,

## PACIFIO <br> PATENT AGEICI <br> JULIUS SILVERSMITH SOLICITOR.

Office...... State Capitol,
Nos 23 and $24, \mathrm{Up}$-Stairs,
Oornor of BATTERY and WASHINGTON STS. SAN FRANCISCO, CAL.

PATENT LAW AMENDMENT OF 1861.

The Patent Law Amendment Act, passed March 4th:1861, and uow in force, intruduces several important changes in our Patent System. The general practice of the Patent Office, bowever, io regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is : "Can I ubtaio a patent $9^{" \text { A positive answer to this question is oulg to be }}$ bad by presenting a formal applicatiou lur pateat to the Guvernment, embracing a petition, specification, model, duplicate, drawings, and the paymeut of the prescribed official fees. Aside from these steps, all the inventor can do is, to
sabmit his plans to persons experieuced in the business of obtaining patents, aud sulicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or aot his invention is probably patentable.

Those who bsve made inventions sad desire to consult With us respecting the same, are cordially
We shall bu bappy to see them io person at our office, or to advise them by mail, or through the Mining and Scientifio Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make
no charge. A pen and-ink sketch, and description of the inno charge. A peu andink sketch, and description of the inpostage. Write plain; do not use peucil or pale ink; be

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

## PRELIMINARY EXAMINATIONS.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U.S. Patent Olfice, Washington, through the medium of our assuciate in that city, to ascertan Whether among all the patents and models there stored, any invention can be found which is similar in character to that
of the applicant. On the completion of this special search of the applicant, On the completion of this special search
we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollara. This search, though it involves the expense just named, will usually prove satisfactory. If the same deFice bas been betore patented, the time and expense of con-
structing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and ex pectations accordingly. Many other obvious advantages atsearch does not always eaable the applicant to know posi tively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publicatiou; or some other person has been previously rejected on an analagous device; or some otber invention for a similar purpose, but partially resembles the applicant's in its conetruction; or the Goverament makes an unjust or uncommon decision. Against none of these contingeucies does the Pre-
limioary Examination provide ; it will, however, generally limioary Examination provide ; it will, however, geberally
infurm ite applicant whether an improvement similar to his, and used for the same.purpose bas ever been patented or not in this country.

Parties desiring the Prelimipary Examination are requested to remit the fee ( $\$ 10$ ), and furnish us with a sketch and description of the invertion.

## caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a neriod of one year, of any judged to be novel, and is likeiy to interfese with the inven-
to complete his application for a patent within three monthe From the date of said notice. Cuveat papers should be very carefully prepared. Our fee for this service varies from fiftern to twenty dollars. The Goverament fee under the new law is reduced to ten dollars; and this sum does not apply, as beretofure, as part of the fee on presenting an application for a patent.
Inventors will oftimes find it very important to take advantage of the caveat system-the expense under the law be ing comparatively emali.
To enable us to prepare caveat paper, wo only require a sketch and description of the invention; no model being aeceasary.
EXPENSE OF APPLYING FOR A PATENT, RE-

## JECTIONS, ETC.

Under the new law, the Government fee, on filing an applicution for a patent, is fifteen dollurs; and if the patent is allowed, tweuty hollars additional is required. If rejeeted,
the first fee of fifteen dollars is all that is demanded. Englisb, French, Austrian, Prussian, Spanisb, and inventors of every nationality, may now obtain patents in the Uuited States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate aguinst the inhabitanus of the United States.
To the foregring ufficial fees must be added the Attorney's
fees for preparing the various documents and drawings. Our charge lor preparing a case, presenting it to the Guvernment, and attending to all business connected with it, until a decision is given, is generally forty dollars; but the charge is higher if unusual labor is involved. If the patent is granted no further ageney expenses ensues. If the application is
rejected we cause a thorough investigation to be made into rejected we cause a thorough investigation to be made into
the reasuns presented by the Commissioner for refusing the patent. Is makiog this examination, we have access to all the drawiurs, models, books and specifications cited in reference, and we report the result as easly as possible to our chenl. For this service we make no charge. If the rejec -it cangenerally be reversed, and tha patent obtained by contesting the cuse. Fur this prosecution we cbarge a fee proportionate to the extra labor invulved, payable only on the issue of the pateut; but our demand will be reasocable and satisfactory to our clients, and will be arranged belore band by special agreement.
Genkral Remaris. -
Genrral Remaris.-For the information of applicazts We would state that some agents are in the habit of cbarg-
ing for the preparation of the case, and having no further cilities, decline all investigation or prosecution when rejected Others, also, having no facilities of their own, advise their clients to go to the expense of procuring official copies of the drawings und specifications ol all the relerences. Again otbers are in the babit $\mathrm{o}^{\text {. }}$ charging a bigh price at the outset, in which they include the cost of prosecuting the case, it by them deemed necessary. Under this system, if the patent is sues, or is justly rejected, no further prosecution is needed but the inventor has paid full price for a service not wanted and never rendered.
Uur object in makicg the above statement is, not to reflect "pon the manner in which olher agents conduct their affairs but simply to have our own method of doing business clearly understood.
The system adopted by us works well, gives general satisfaction, and presents to all applicants, rich or poor, an equal opportunity of baviog their patent cases prepared, conducted
and prosecuted in the best manner, by experienced attorneys, upon the most modurate terms. Inventors who have rejected cases, prepared either by themselves, or for theio by other agents, and desire to ascertain their prospects of success by further effurts, are invited to avail themselves of our unequaled facilities in securing favorable resulto. We bave been suc cessful in securing Letters Patent in hundreds of such cases. Our terms for such cases are very moderate.

## MODELS, REMITTANCES, ETC.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of
its dimensions ; it should be neatly made, of hard wood or its dimensions; it should be neatly made, of hard wood or metal, or botb, varaisked or painted ; the nsme of the
tor should be engraved or painted on it conspicuously.
Where the invention consists of an improvement on some
known machine, a full working model of the whole will not known machine, a full working model of the whole will not
be necessary. It should be sufficiently perfect, however, to be necessary. It should be sufficiently perfect, however, to
show, with clearness, the nature and operation of the invention.
As soon as the model is ready, it sbould be carefully boxed and shipped by express or other $\pi$ ise, to our address, namely, J. Silversmith, lale state Capitol, Rooms 23 and 24, San
Francisco. Prepay the expense, and send express receipt to us by mail.
Simultaneously with the model, the inventor should also seud us the first instailment of the Goverbment fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco payable to our order. Always send a let-
ter with the model, and also with the remittance, stating the name and address of the sender. We sometimes receive ejvelopes containing money, but withont any name or explanation; m
sources.
A fall description should also be sent with the model, em-
boriging all the ideas of the iuventor respecting the improp ment.
On the reception of model and Government fee, the case is duly regiatered upan our books, and the application proceed. ed with as fnat as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature, and athiduvit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office,and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely twenty dollars.
Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal at-
tendance of the inventor, unless the iovention is one of great complication ; the business can as well be done by correspondence.

When the invention consists of a new article of manufacture, or a new compersition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufretured article itself, must be furnished.
The average time requird to procure a patent, when the case is conducted at our agency, is three montbs. We frequently get them through in leas time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five montbs, aod even more. We make a special point to forward our cases as rapidly as possible.

## RETURN OF MODELS.

Under the new law, if the applicant's case has been rejected he is entitled to withdraw his model from the Patent Office. This law applies also to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expeose.

## DESIGNS, TRADE-MARKS, LABELS, ETC

Under the new law patents mav be taken out for any new form of any article, also for tools, patterns, castings, machineframes, stove-plates, borders, fringes, all new designs for printing, weaving, or stamping upon silks, calicoes, carpets, marks, labels, envelopes, boxes and bottles for goods, may also be patented ; lisewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be
placed upon any article of manufacture, architectural work, placed upon any article of mannfacture, architectural work, according to the fee paid by the applicant, as follows

Patent for 31/2 years.
No models are required. But duplicate drawings must be furnished, together with the usual specification, petition and affilavits, which, to render the patent of value, should bo prepared with the litmost care.
Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

## INFRINGEMENTS.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or probibition from the employment of his machinery, shop, works, factory, and men in production of the In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable, either collectively or individually.
Having access to all the patents, models, public records, drawings, and other documents pertaining to the Patent Of fice, we are prepared to malse examinations and give opinions upon all infringement questions, advise as to the soope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Address all lettere of inquiry to J. Silversmith, State Capitol rooms 23 \& 24, San Francisco.

## APPEALS.

In rejected and othr cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissinger to the U. S. Oourt, of the district of Columbia. These appeals are beard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to theap. pellant for a closing reply.

Many important cases are brought before the Judges on appenl, and the decisions of the Commissioner are not unfrequently reversed.
We have had successful experience in conducting these ap. peals and our services can be retained on moderate terms.

SUGGRSTIONS ABOUT FOREIGN PATENTS.
American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some otber foreign countries. Four patents-American, Euglish,French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people in the world.

The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained through the Mining and Scientrfic Press Patent Agency. Having established agencies at all the priocipal European seats of Govern ment, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, ete., with promptness and dispatch.
Models are not required in any European country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravingsshould not be published until the foreign applications have been made.

Cayrion.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such applications as they mas otberwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent at home.

While it is true of Most European conntries that the rystem of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex amination; as it is a common practice when a patentee finds 2 purchuser for bis invention, for the latter to cause such examination to be made before be will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whetber in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.
A Circular containing further information, and a synopsis of the Patent Laws of various countries, will be furnisbed on application to J. Silversmith, Government House, San Francisco.

此豕Miners, Inventors, Agriculturalists, Capitalist and Mechanies, will find if to their advantage to subseribe for the Mining and Screntific Press-being the only journal of that elass published upon this continent. Issued every Saturday at four dollars per annum.

Address, J. SILVERSMITH,

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter, say francisco
wholesale and retar dealers in

## PIANOS, SHEET MCUSIC italian strings <br> INSTRUMENTS OF ALL KINDS, dic., \&c.

$\qquad$
A. A. GALE \& CO., New Yort;
T. GILBEET, Boston ;
C. MEYER; Philadelphia.

Whose Pianos they have always on hand, for sale and to rent.

## PIANOS FOR RENT.

New Music received by every steamer. New Music published. Music assorted and bound in the best style. A liberal discount made to the trade and professors of music. au14
Minportant to the Afficted. - In consegucnce of the wide spread
 of PRIVATE DISEASES, the Directors have concluded to place veforo the
public the fast that the Resident Plysician of the Electropachie Institute public the fact that the Resident Physician of the Electropathie Institute
645 Washington street, between Moutgomery and Kearryy streets, is the best qualifed physcian in ihe State to ensure a PERRECT und PERTMAREST COPE iv such cases, and he will a lways be in attendance to cousult privately with all Who may require his seroices, zud will ensure epeedy relief. Should this meet the eye of any one who may have rensou to fear tbat the disease may
be lurbing in their yystem, hey may call uyon him without fear of being
 au14-3m
$\qquad$ [See advertisament in another columu.]

## LEWIS COFFEY \& RISDON'S

## TSTEAM BOILER AND SHEET MRON WORKS.

The only exclusively Boiler Making Establishment on the Paciice Coas
Owued and couducted by Practiral Boiler Makers. All orders for New Wor or the repairing of Old Work, executed as ordered, and warranted as to quality

Oid Stand, corner of Bush and Marker Streets.
LEWIS COFFEY, Opposite Oriental Hotol, San Francisco, Cal.
J. N. RISDON

PACIFIC MAII STEAMSHIP COMPANY'S line to PANAMA
Ad connecting via the Panana Railiond with tho steamers of the Atlantic

## FOR PANAMA,

The following Steamslips will be dispatched in the month of August, 1862
Aug. 1st-UNCLE SAM, Captafin R. H. Horner.
Aug. 11-GOLDEN AGE, F. R. Baby, Commander
Aug. 21st-SONORA, Commander.
Will leave Folsom Street Wharf, with Passengers and Treasure, for Panama AT 9 O'CLOCK, A. M., PUNCIUALLY,
And connect, via Panama Railroad, at Aspinwall, with steamships for N. York
For freight or passage, apply to
FORBES \& BABCOCK, Agents,
je4 Corner of Sacramento and Lainesdorff sts.

## GATTEL'S

CAPILLACEUM,
Medicated HAIR TONIC
$R E S I O R I N G, P R E S E R I N G$,

## Beautifying the Mair.

It cleanses the pores of the skinn, entirely frees the scalp from dandruff and all cuxaneous diseases, thereby preventing baldness and gray hair, and will cause the hardest hair to become soft and glossy.
Ladies will find the OAPILLACEUM a great addition to the toilet, both on account of its delicate and agreeable perfume, and the great facilities it affords in dressing the bair.

Price, 75 cents. For sale by all Druggists.
HOSTETTER, SMITH \& DEAN,
Agents.
an28
No. 227 Montgomery street, Russ Bloek.

## READ THIS!

CoAL otl fxplocion.-ON SATURDAY ryening, while mr. Brewrone can to another, his wife impruderty arpoacheled with a ilighted candle
and the nil exploded. Mra. Brevster's arms were badly hurned and the nil exploded. Mrfs. Brewster's arms were badly burned, as wore also the husliand's huds. However, he succeeded in mastering the damen,
and preventivg worse consequences.- [Eveuing Bulletio, Aug. 4.

## THEN THIS!

COMET ILLUMINATING OIL!
Manufactured expressly for Stanford Bros.
7HIS POPULAR
BRAND of KEROSENE
Is warranted free from Camphene, Potroleum, or any other explosive mate.
rial, and is the
Best Family Oil in the Market STANFORD BRO'THERS, ${ }^{2014}$ Nos. 121, 123 and 125 California street.
INTERNATIONAL HOTEL, The Oldest Established First Class House in FIRE-PROOF BRICK BUILDING. FOSTER \& COLEMAN, Proprietors.
Most convenient to the Sleamer's' Landings, business streets, Open all night.

## RS REDUCTION IN PRICES!

The nimble "Bit" is better than the slow "Quarter."
$\$ 150, \$ 175$ \& $\$ 2$ per Day Fine Bathing Rooms attached to the Barber Shup.
NO DARK ROOMSI EVERY ROOM OPENS TO THE LIGHT AND AIR. Hair Evaty room is furnished with a first qualhty Patent Spring Bed and Hair matrass, and are fuperior to any other Hotel in the State.
The International offers to o guefts fie geatest number and best furnished Family Roooms, and also sots the BEST' TABLE OF ANY HOUSE NY TEE criy.
No. No runners employed at this Houso. Our coachman will always be found ou the boats, to take your clecks and procure your baggage for our
coaches. No charge for baggage. coaches. No charge determined that rige Internations shall be the must comfortable,
Wo best regnlated, and in all respects superior to any like establishmpot in the
State, mad Ehall aim to merita continuance of ilie popular favor wo have
(1) The follow'ing letter, which emphatically speaks for it self, was wristen by the Dean of the Faculy of She Plithofelphin College of Merlicine, to the editors of the Pacific Medical and Surgical Journal, fer publication:
To the Editors of the Pacific Merlical Pournadzequat Junuary 17, 1862. has been crlled to an artiele in the Decembrr number of yonir journal in on gard to the ad eundem degree granted by the Philudelpbia colournal. in recine to Dr. L. J. Czapkay. When the application for the degree was made to that Dr. Czipkay was a regnlar by affidavits and testimonals to the effect had served as a surceon ingar graduate 3. D. of the Uoiversity of Pesth, tioner of medicine. On the strength of the ene the degree was granted. The ad eundem degree, as its name implies, is conferred in fraduates nnly, aux gives us new privileges. Had there been the slightest suspicion of irregular-
ity, the application would hare been refused. By hasertiog this in your journal you will do an act of justice to tho College and confer a faror ou Yours, very respectully,
Dean of the Fuculty of the Phila. College of Nedicine

DR. L. J. CZAPKAY'S Privato Medical and Surgical Institute is on Sacramento street, below Montgomery, opposite the Pacilic Mail Steamship Com-
vady's office, San Fruncisco. The Doctor oflers free consaliations :und aska to remuncration uuless he ffects a cure. Office hours from 9 A. M. to 9 r . At.

Certificate-I, the undersigned, Governor of Hungary, do tesitity hereby that Dr. L, J. Czaptay has served dut ing the coutest for Hungarian liberly, a Chief iurgeon, in the Fingarian army. With fathoul perseramance. Whereol I have given to him this certificate, aud recommend him to the sympathy, otic selt-sacrifice, and undeserved inistortune capable of artan KOZSUTH LAJ
Washington City, January 5th, $185 \overline{2}$.


PRACTICAL COPPERSMITH,
No. 118 (Old No. 28) Bush street,
Between Sansome and Battery, Sis Francisco.
Whilst thankful for the former comfidence bestowed upon me, I desire to say dhat I am ready to minke and repair with cheapuess nnd dispatcb ereryeries and Dist,lleries; also, all such as are used where steam, Epirits, or pumps of any kind be required. Also, Kitehen utensils for Hatels, Resun ranis and mill Bate houres, Bag apparatus for Bane and Confectioner as well as all other kitus of enpper work,
Allorg from the conntry promplly attended to.

## WRIGHT'S PICKS.



JOHN WRIGHT, of Sncramento, bas established himself in San Fraucieco at reducell prices. Pirs Eyes of description of 1 Fk , of the best material ow rates Ouders from the country promptly attended to. N. B.-Nous je2 JOHN WRIGHT, 511 Market street,
Opposite Battery, San Frarelsco.

GARRATT'S PATENT COUPLING.

W. T. \& J. GARRATT,

CITY
BRASS \& BELL FOUNDERS,
Cor. First \& Market sts., opp. Oriental Hotel, SAN FRANCLSCO.
B ABBET METAL CASTINGS, FLRE ENGINES, FORCE AND LIFT PUMPS Dad all or her mints Goat Bells, Tavern and Hand Bells and Gongs, Hose HYDRACLIC PIPES and NOZZLES for MINING PURPOSFS, Irou steam pipe of "Gished with fittings, «C.; COUPLing JOINis of ALL SIzes. Manufucturer
$T$ ANDLER \& CO.-Importers and Jobbers of Eoreign and Domestic Wines H G BEPLER, Practical Copperamith, No, 22 Bush street, Between Sam [

DR. HILIS'S IMPROYFD AMALGAMATOR AND GLEANER.
The accompanying illustration presents, Dr. Illl's im proved gleaser. fise which he ubtained letters patent January $1=6$, 1861 , ince which, several of these have bern practically emploged in several southern counties, in this State and Nevada Territory. We have in our office a working podel, which we have carefully $\varepsilon$ xamined and tested, and from careful observations concluded that it embodies all the natural principles and laws for doing that for which it is intended. Centrifural and centripital furces, form some of its leading and must interesting features: for its practicability and usefulness, we cheerfully rf fer to the certificutes hereby appended emanating as they do from honorable and reliable sources. Our illustration is a faithful sketrh; the simplicity of construction, and the manner of its operation, render it one of the most practical, useful and bighly scientific inventions in existence. The inventor says:
lst, That it is automatic in its workings, consequently more cconomical than a vessel requiring mantal aid; as with it and a mill of 12 stamps to crush and amalgamate, together with the services of an elficient feeder, twelve toms may be put thrnurh in as many hours: with a saving of 99 per cent. of the liberated gofl: and the same be cleaned up in one hour from the stoppage of the mi.l by one man, whether for a day's, week's or mouth's run.

1, It is a perfeet guardian apainst all such loses as result from overfeeding, over or under dosing a battery with nercrny: all of which are well known by practical millers to be productive of much waste.
3d, It superceles the uecessity of conpler plates whether inside or antside of the battery together with sluices, gunny bags, blankets, revolving barrels, and all their kindred contrivauces, together with the incidental expenses attendant upun the sane. It also dispenses with the toil of unhousing a battery, except in case of accident, or when gold is too coarse to pass the screens. So that the work requiring the services of three or funt persons all day, is uccomplished by one man in one hour, that being the extent of time required
to clean it, whether, as observed before, for a dlay's, week's, to clean it, whet
or month's run.

4th, It can be so arranged that no one, save those having the exclusive right, can interfere with it; a desideratum not to be dispised by mill proprictors.

The physical laws by which these results are arrived at are the following: specific gravity, centrifugal and centripital forces, aided by water.

The specifie gravity of gold is 19 ; mercury 13; quartz 2, about. Nuw it must be borue in mind that all bodies when immersed in water lose a portion of their weight equal to their bulk of water, consequently the relative weights of the above budies will be as follows, yold 18 ; mercury 12 ; quartz
1 about, showing a great prepondetance in the weights 1 about, showing a great preponderance in the weights

When the crushed material from tho mill arrives at the gleuner, an immediate separation of the amalgain from the accompanying waste matter takes place; the former from its superiority of weight descenning to the pool of mercury, becones incorporated with the same, and sinking to the bottom, remains as in a stationary vessel; while the waste matter or tailings, from their inferionity of weights, are held in suspension, and in this condition expelled frow the gleaner by the centrifugal force.

Should any of the amalgam in its descent escape the pool, it is at once seized by the mercuralized surlace of the vessel, when, from affinity and cohesion, it so firmly fixes
itself as to be proof 8 gainst any power at work in the vessel itself, as to be

The speed imparted to the gleaner is barely sufficient to expel the waste matter, and retain the good.

$$
\text { Anazis, April 19, } 1062 \text {. }
$$

Having thoroughly tested the mer ts of J. ML. Hill's gleaner, at the Broderick Mill, I unhesitatingly acknowledge its superiority over all other contrivauces of my knowing, for the collection of amalgam; as also for its economy in working. In proof of which I wuald state that after running it one week, in connection with the Mill, I had the hides which were placed below it and which were repeatedly washed every day in a tank, carefully panned out by an experieuced hand. The result of which did not exceed fifty cents; although milling at the time rock worth fifty dollars per ton.

San Franaisoo, April 23, 1862.
Dr. J. M. Hill, Angels Canlp-Dear Sir : I take much pleasure in testifying ta the value of the gleaner as an amalgamator. I consider it superior to any other machine now in use for saving gold, no natter to what state of division the same may be reduced.

Yours,
Edward A. Breed. ANGRLS, April 18, 1862.
Having subjected Dr. J. M. Hill's gleaner to a fair trial, at my mill. I can safely suy, that it is superior to anything in use, of which I have the knowledge, for the purpose intended, namely. the separation, and retention of amalgam, from crushed ores.
E. C. Winter.

## NEW AlNERTISEMENTS

## RE-OPENING OF

THE NICARAGUA ROUTE!

## People's Line, CONNECTING CALIFORNIA and NEW YORK.

## 700 Miles shorter than any other route !!

EXPECTED TO MAKE THE TRIP TEROUGH WITUIN 21 DAYS.
The fast and favorite Double Engine Steamship
MOSES TAYLOR, 1,600 tons,
E. How

Will be dispatched for
$S A N$ JUAN DEL SUR, From Mission street Wharf,
Punctually at $\theta o^{\prime}$ elock A. M., of
EUESDAY, . . . . . . . . . - october g1at.
Connecting with the splendid Steamship
AMERICA,
2,000 Tons.
JEFF. MAURY, Commander.
THE PEOPLE'S LINE
Has been established on this

## Shortest, safest and Healthiest Route,

OPPOSITION,

Reduced Fare, Good Accommodations, and Quiok Trips.
of beigg is intended to parpose
 sengery are the malu objects. To secure hesc ut merchaodise frelght (oth
er than specie) will be laken. The MosE TAYLOR is built with Waterright Compartments, asd is unequalled for saftely as well as speed.
Tint informulion or pussage apply to
Fut

STER \& CO., Agents,
425 and 427 Battery stro

## MUSIC! MUSIC !! MUSIC!!!

A. KOKLER,

IMPORTER OF EYERY DESCRIPTION OF
Musical Instruments and Musical Merchandise.
Sheet Music and Music Books.
GENUINE ROMAN STRINGS, \&c., \&c.. \&c.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS,
$R A N K$ AS T'HE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KOHLEr, agent for the Pacinc Coast.

## Melodeons and Earmoniums, from the celebrated manufactory of

MASON \& HAMLIN.
Warranted superior to all others.
Send for a catalogue and Priee likt. A. KOKIER, Agont.
LABOR-SAVING \& ROGK-DRIUTING MACHINES
TO ENGNEERS, RALROAD CONTRACTORS, TORNPIKE, AND QUARRT. HAND, HORSE, AND
STEAM-POWER MACHINEN.
The Hand sachines aro expressly adaptod for working in Tunnels, Galleries, wo., dina performing the lavor of three in the ordiuary way. A FOUR-HORSE POWER MACHINE, operated by one man, drives a ma-
chiue capable or drilling a four to six Ioch diameter hole in granite four feet chiue capnbe or drilling a four ti six meth diameter hole in granite four feet
deep, and in bard limestoue, six feet per hour-the rapidity of the work deeg, and in bard limestone, six feet per hour-the
beiug limited only by the durability of the steel drill.
Sotisfactory reference will be given as to the practical working of the
machine, nud its eutire success in reduciug the rost of drilliug holes to one-
 anve rock excivations to make in any part of the State, the subscriber will
vudertake and guaranice to porform the work required, at a saving of at least twenly-five per ceat. over any other procese. WM. W. DUNN,
Address orders to

## THE EYES! THE EYES!! THE EYES!!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Francisco Deaf, Dumb und Blind Asylum.

After a protracted blindness of more than five years, Dr . PARDriE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practic-
ing with a success that cannot be surpassed in the United States; and as proof of this he substantiates by many cases now in Califormia that have been cured by him, after having exhausted the skill of the eminent physicians and oculists of New York city, Bostou and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there has been more bliudness from bad and improper treat ment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what hud been formerly done, the almost invariable reply is, "I had my eyes burned with caustic or bluestone ; and bistered, theu cupped two of three tid wepk-had a blue pill prescribed for me at night, and salt: in the norning-was ordered in a dark room-to keep my eyes tightly bandaged-to avoid the open air and exercise," with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but bura them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and folInwing theories the most erroneous, and destructive to the eye. How much more rational and consistent to consult an experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patients under his daily supervision, and, with but very few cases, they have all been treated by other physicians hefore applying to him-and all to no benefit. 'I hose wio are doubtful are permitted to call at Dr. Pardee's office and confer with the many patients who couvene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artificial Eyes on this coast, inserted, having all the movements of the real eye, and that they lo k so life-like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens by absorption or extraction;-"Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&c.
OFFICE :-Clay street, above the Plaza-opposite Plaza Hotel-old No. 217, up stairs.
aug14.
MINING AND SCIENTIFIC PRESS.
THE ONLY MINING, MECHANICL AND SCTENTIFLC Paper on this continent.
SECOND YEAR: VOLUME IV.-NEW EERIES I
A uew rolume of this extensively circulated paper commonced March 30 1861. It is inteuded that every number shall be replete with information concerning Mining, Scientific, Mcclanical and Industrial pursuits, together
with several origiual engraviugs, of uew inventions, etc., prepared expressly
This paper is devoted to the above purposes, together with the interests of science, Arts, Agriculture and Commerce, nond any general information that may be of interest to the reader : and it is tho intention of the proprie-
tor to spare no pains or expeuse in making it equal in interest and valuablo tor to spare no pains or expeuse in making it equal in interest and valuablo information to any paper yet published.

The Mining Interest!
Will fud it of great ralue, as it will contain all the news apportaining to Mining, the prices and sales of Mining Stocks, new inventions of Machinery addap ecd to taat purpose, and of everythigg geueraly that may be of sorvice
to the Miner.
The Inventor!
Will find it an excellent medium for the purpnse of bringing his invention into ootice, of ascertaining the progress of invention in this and other
countries, and also of receiving any information that may be necessary countries and bisportent, the proprietor having had great experiences as a Patent Agent, together with facilhties at Washiugton that onable him to ob in Patents with dispatch.

The Mechanic and Manufacturer !
Will be greatly benefitted by ite perusal, as asch number will coatan eereral origioal enyravings of new machines and inventions, together with large amount of reading matter appertaiuing thereto. Wo are constantly
receiving the best scientifie journals from all puarters, from which we receiving the best scientific journals from all quarters, from which we
shall coutnue to extract whatover may be of benefit or interost to our
隹
readers.
To Chemists, Architects, Millwrights and Farmers I
This journal will be invaluable. All new discoveries in Chemistry will be given, and a large amount on fiormation or groat service as Alatects and
Hillwrights will be found in our columus. The Farmers and Planters will not bo neglected, engravings will be given of agricultural implements, and the farming interest generally will be amply discussed.

## To mail subsoribers :-Four Dollars per annure.

## Five Copies for Six Months, 88. Ten Copies for Six Months, 816 .

Ten Copies for Twelve Months, $\$ 30$.
Fifteen Copies for Twelve Jonths, \$4.
Twenty Copies for Twelve Montlus, $\$ 56$.
or all clubs of Twenty and over, the yearly subscription is only $\$ 0$ ames cain bo sent in at diferent times and trom different Post-offices

J. SILVERSMITH, Publisher,

Room 24, (formerly) U. S. Court Building, Corner

## Caveats and Patent Applications,

We are enabled, through our legal connection at Washington and Luropean Patent Bureaus, to ohtain Letters Patent for inventors and discoverers on this Coast, WIT'H LESS EXPENSE, and GREATER ECONOMY of TIMF, than any other firm in the United States.Those requiring our services will please address us by stating the nature of their invention, with a sketch or drawing thereof, also a model if possible. The Government fees are as follows:
On every application for a design, for three years and six months, $\$ 10$; on ev ery application for a design, for seven years, $\$ 15$; on application for a design, for fourteen years, $\$ 30$; on every caveat, $\$ 10$; on every application for a patent, $\$ 15$; ou issuing each original patent, $\$ 20$; on filing a disclaimer, $\$ 10$; on every ap plication for a reissue, $\$ 30$; on every additional patent granted on a reissue, $\$ 30$; on every application for an extension, \$50;

on the grant of every extension, $\$ 50$; on appeal to the commissioner from examiners in chief, $\$ 20$; on every appeal to the Judges of Circuit Court, D. U., $\$ 25$. Address, Juluas Shluersmith Patent Solicitor, State Capilol Building corner of Wachington and Battery sts. San Francisco. Cal.

## Hustrations and Engravings.

WOOD ENGRAVING.-This Uffice undertakes the preparation of Illustrated Catalogues and Circulars for Eagineers, Agricultural Implement Makerd Hardware Dealers, Jewellers, Printers, Paten.ees, and other kinds of Wood Engraving; and, from considerable experience in 11 lustrating mechanical journals, can insure accuracy of detail both in the Drawing and Engraving. This is secured by employing professed Mechanical Draughtsmen in the preparation of the Wood Blocks. Drawings taken from Photo-graphs.-Estimates furnished.

SEWING MACHINES

at priogs which bring then within the reach of all
THE.
NEW ENGLAND SEWING MACHINES for $\$ 25$
Thars machine stavds confessedy at the head of every thing now before
 ty, it has no rival. It is made with special reference to the wants of a fan
ily, and any one with the aid of the printed directione can learn to work it
sugessilly suicesstully in a few hours. It will work fron lecther to the fluest cambric without the change of needle, tension, or fecd. It gives the best satiefactivu
where it is sold, and all whio ute ar examine pronontee it better adapted to Where the wauts and cull who une or examine prononce it better adapted to public. Guage and hemmer attached. only cheap machiuc that will do all kinls of family rewing.
STEWART \& SHEAR, Geveral Agents, вер x 1 WILIMM FEILL, Notary Public for Storey County, N. T. Cutamissioner


## LATEST IMPROVEMFNT

## In LADIES' BUCKLES.

$\mathbf{M}^{\text {R. reichel respctfully announcfs to the ladies of this }}$ - State, as well as to Jeweeres and dealers in Jeweiry, that he hae mad mportant improvements in Brckles, which surfass auy and an heretu-
core made. Their simplicity, commodiousess, aud benuly render them th most useful as well ns ornamental trinke1s.
Orders trom the country respectfully solicited. For particulars call at or address,
sep11
Manuracturing Jeweler, 620 3erchant street, Sun Francisco.

## V. SQUARZA'S

## PUNCH FACTORY.

We present herewith the portrat and trade mark of the gentleman who hends this article. Mr. Squarza is favorably Know in this Stute fur his Anti-Divorce Liquere and smialar prodnctions, as
wawufactured by him. We may mention that Mr. Snnuma is au fait in the
 establishments for the sale of his falmuss Puach-ouse on Leidessiorlt, the other on Montgomery street-whelk are coustuntly thronged with our bon rivints.
The following is a list of bis liquors, all of which we have tasted, and find Hem the most delicious and harmless bevernges in this cily, being pure, and unadulterated with drugs or other ingurious chemimals:

## Rum Puuch, Sognac do.

| Ant |
| :--- |
| Coftre |
| Colivor |

Pras
Puncl,
do.
do.
 Morning Corato Appetiser,
Lidics' Tears
And CHAMPAGNES of all brands.
TBSER'S HOTEL, Sacramento, 18 and 20 K street, between Frout an
E second. Chas \&r rrank Lbier, Rophetors.
$\mathrm{B}^{\text {Rannal:d house, Lincolu, Cal., on } G \text { street, between 4ilh and } 5 \text { th. }}$
$J_{\text {street, near Front. }}^{\text {OHN R. SiMs, Mandurer of Fire-Proof Doors and Shutters. }} \begin{gathered}\text { Oregol } \\ \text { my } 30\end{gathered}$

Washoe Stock Exchange,
N. E. cor. Montgomery and Merchant sts.,

SAN FRANCISCO.
L. W. NFWELL \& CO.,

Buy and sell Washoe, Esmeralda aud other Mining Stocks and Securities.
Gird's BUDDING KNIFE
The attention of parmers, horticulturists and cutlers. or - manufacturers of Horticultural Implements, are relerred to the above inyentron. For description and engraviog see Minivg and Scirntifo Prems No. 24, vol, $r$.
State, Torrritory and workshop rights for sale at reasonable prices. Address
sepl-3m
3. SILVERSMITH, (Agent for Patentec.)

## Sur Beafitung filr Crrinter.

Erfinber, melde nidat mit ber eng̣lifden Spradie befonnt fint, timnen igre Mittheilungen in ber beatifien Spradje madicn
©lizzen vor Grfintungen mit furzen, beutlidy geidjriebenen Bejdrcibungen beliebe man zu ndbrefixen an.

Die Erpedition biejes Blattes.


GENERAL FOUNDRY ESTABLISHMENT AND MACHINE WORKS.

## PALMER, HANSCOM \& CO., Proprietors.



Golden State Foundry, First street,
KNOX'S LATE IMPROVED AMALGAMATOR.
(Manufactured and for sale at the Golden State Fonndry,
Palmer, Hanscom \& Co., proprietors of the above well established and faror ably known works, throughout the $P$ a cific States, desire to call the atteation of mining companies, mill owners, and others requiring machinery of any description, to the fact that they are enabled to execute any and all orders of whatever nature at the shortest notice, and at Greatly Reduced Prices. Their works are the most complete in their appointments on this coast. These gentlemen guarantee entire satisfaction to all who may favor them with their patronage.
Mining machinery, such as crushing mills and improved Knox's Amalgamators, (the best for extracting the precious metals) kept constantly on haud and manufactured at the shortest notice. Send drawiogs and specifications for estimates, and address,

Palmer, Hasscom \& Co.,
Golden State Foundry, San Fraucisco, C 1


## DR. L. J. CZAPKAY'S

PRIVATE MEDICAL \& SURFICAL INSTITUTE.
smerminento street, below Montgonery,
Opposito the Pacffic Mail Steamship Company's Office,
san frametstu.
Es'ab'ished in 1854 for the Permanent Cure of all Chronic and Prioute Diseases, and the suppression of Quackery.

 We. Parncular atteatious puid to tho treatuent of diseases peculiar to Wo. ne wd "hldren
 Addross,
L. J. CZAPKAY, M. D.

## TO THE AFFLICTED.



 poroper treathent, has alvevoloped the secondary fymptoms of ayphhas








Dr. L. J. Czapkny is rlaily recering application from erery part of this
state and from Oregon and Whashugion territory, for the treatment of State and from Oregon and Washugtoln Territory, for the treatment of
every form of dinease, and there i< not one who will comn forward und exprers dissatiafactian; on the contrary, the loctor is in taily receipt of letters दxpresnise of granitu
low by peranision.

Stockton, May $24,1855$.
Dear Sir-Finving ontirely recovered from my hicknoss, I avail myself




 have boet, you have permi-sion to nuke use of this letter as you may think
groper. Believe megratelully yours,
To Dr. L. J. Czaplay, San Francisen.
3. MCHELS.

Dr. L. J. Czapkay, San Franelsco: Sir-l have hatil the last of your med cine, and do not think I shall need any more, us I feet very well, exeept that 1have not entirely got my utrength yet, but sonh will with the apputite that
 able to do somothag to eise the paiu iu my buck nud hought youn might b
and streugthe ing limbs, whach were so weak that thry woult almost give way under me,
when I wabled, und utreugthou my uerves fo that I would not pel ercote When I walked, avd utreugthuu my uerves fo that i would not ect excited
and tremble at every little thog. Now, that jou kuow what I expected,
you may judgo of my satisfactiou at nuy complete recovery from thos you may judge of my sitisfactiou at niy complete recovery from thos
bymptoms, knd the removal of those blotehes ant aores from my skin and
the ulecrs from my throat, and thu entire stopraye of these emissious which you suld were princhpally the culse nf my sickiness. I can burdly tell you which is the groatest, my ioy or my surprise,
copt not havtigg got my strengeth. I fell as well as any man can feel, copt mot having got my strength. Ifell as well as ally man can feel, Enclosed Isend you Tweaty Dolhars over your charge, allit thiuk myself
cheaply cured. If you thiak anyhory will be beactied, you may put this letter in the newspapers. Believe mo gratefully yours,
THOMAS HAYDEN.

## [certiticate] ]

The undersigned desirous of acquainting those who may be unfortunate enough to bo aimilarly aflicted where a pern inent relief of their sufferings may be nbtained, feels it his duty to thus publicly express his sincore grat-
ttude to Dr. L. J. Czapkay, for the purmaneut recovery of his health. Bordo down by the distressing symptoms imeitent to the vicinus practices of un-
controllatle passion in youth, depressed in body and mind, unable to perform controllable passion in youth, depressed in body and mind, unable to perform sought the advice of nouylphysicians, who at lirst regarded my disease as of
trifing importunco, but alas i after a few weeks, and in several instancen tribing importance, but alas i after a few weeks, and in several instance日
months. of their treatment, I found to my uautterable horror, that instead of relier my symptoms became morealarming in their tortare, nad being told by one that the disease buing principally confined to the brain, medi-
cines would be of histie conseguence. cines would be of histle conseguence; I lespaired nf ever regaining my healith,
Btrength and energy; end as a last resort, ind with buta faint bope, atreugth and euergy; and as a last resort, and with but a faint bope, I callod
upon Dr. Czapkay, who, after examiving my case, prescribet somo medicine upon Dr. Czapkay, who, after examiving my case, prescribet some medicine
which almost iustanty relieved mo of the dull pain and dizzitess in my head. Eucouraged by the result, I resolved to place myself immadiately under his care, and, by strict obe.lience to his directions and adrice, my bead
became clear, my ideas collected, became clear, my ideas collected, the constant pains in my back apd groins,
the weakness of my limbs, the neryous ro-actiou of my whole boily The weakioss of my limbs, the nervous re-actiou of my whole bouly on the
siightest exclement, the misanthropy and evil forebodiugs, the self-uistrust 8ightest exclemeat, the missathropy and evil lorebodiugs, the self-distrust
and want of coutlucnce in others, the tucapability to study and want of reand want or confluence in others, the incapability to study and want of re-
golut-on, the frightful, exciting, aud at times pleasurablo dreams at night,
followed by involuntary discharge followed by involuntary dischargea, have all disappeared, and, in fact, iu
two months after having consulted the Doctor, I felt as if ingnired by an new two months after having consulted the Dnctor, I felt as if inspired by a new
life, that life which, but a sbort tione ago, I contemplated to end by hand.
With a view to guard the unfortunate from falling into the snares of locompetent quacks, I deem it my duty to offer my teationany to the merit and skill of Dr. Czuplay, and recommend bim to all who may stand in need
of taedical advice, belisg assured by my own experience that one un of roedical advice, beug assured by my own experience that, once under
his care, \& radical aud permanent cure will be etfected B. F. Fllumore. ]t.s.] S:ate of California, city and county of San Francisco-Subscribed and
sworn to before me, this 17 th day of April, A D, 1856. (signed)
[j525-Ǩ]
[ $\mathrm{L} . \mathrm{s}$.

Pacthc Fousnry and machine shup, first street, between Misson

Ihe Best Foundry and Machine Shop on the Pacife Cocast.
With upwards of forty-Avo thousund dollars worth of natterns, we aro cn abled so do work cheaper ans quicker than auy other establishmont on this


 three montloe Mining luans of all sizes aud kiuls; Flouriug Milis; Guog,
Sash, Julay, and Cireular Saw Mills; Silingle Machines, cutting 26,000 por day, gud tare perfectly than any now in use. The of those shingle mapebtines can be seen in opmration at Hetcal's mill in this city.
Krox'r Amalgumarors, with the latest improvernents; Howland en Ifanscorn's A inalgamator; Gouldard's Tub, lutely inproved, in fact, all kinds now Quartz sereens, of every degree of fineness, made of the best Russia Tron. Cur Wheves and Axlog of all dimmaions; Butlding Fronts; Horse Powers;
Emut Mulls; Briler Fronts; Wind Mills, of Hunt's Johnsons's and Lum's Pa. Smut Malls: Boiler Fronts; Wind Mills, of Hunt's, Johnsons's and Lum's Pa tent : anif to make a hag story short, we make castings and
erery duseriptlon whatever; alsu, all kinds of Brass Cistings.
Steamboat work promptly atteuted to.
Thamkful to the public for therif many past favors, wo would respectiolly olicitan continuance of their patronage, Before purclasing, give us a call
adseo what we can do.

GO LDAFD \& CO

## ADVANTAGES

## BRYAN'S IMPROVED MILL.

This Milu will Crusb, with the same weight of Starmps, Twentr-Five per cent. more rock than any other mill yet invented. It is also Oheaper, more Durable and run with Less Power. All parts of it being fitted together before leaving the shop, it can be put up set at work Crushing the Ore, in Ton Hour ter arriving on the ground !
Every one exclaims after seeing the Mill in operation, "Why has not so perfect and ye simple a mill been invented before? It would have Saved the Fortune of many a Miner exponded in worthless machinery, and enriched the State a Thousand Foldi"

## QUARTZ MILE SCREENS

 Ot all sizas, furnished with dispatch.ADOPTED AND NOW USED BY Eastera Siopo Gold and Silvor Company,
Bartoln
 Union Reluction Company,

THE FOLLOWING GOODS TO BE FOUND AT II. D. PEARCE'S:

Gents' Heavy Gold Cases, different patterns ; Ladies' Heavy Gold Cases, do do ; Gcld Telescopic Pen and Pencil Case: Extension Screw, Heavy Silver, for Gents'; Extension Screw, Heavy Silver, for Ladies; Silver Extension Cases; Silver Telescopic Cases;
Screw, Silver and Ebony Desk Holders ;
Slide Silver and Ebony Desk Eulders;
Reverse Silver and Ebony Desk Holders;
Pen Holders, Silver and Ebony
Pen Holders, Gold and Ebouy;
Pen Holders, Gold and Ivory;
India Rubber Propelling Pen and Pencil Cases; India Rubber Propelling Pencils, short.
All the above goods are made to order aud warranted; will be sold cheap for cash. There are some thirty different patterns, leaving an opportudity for parties to select and be suited.
A cheaper class of Pens direct from New York, at wholesale only.
Gold Pens constantly ou hand. Gold Peus repaired.
H. D. PEARCE,

606 Montgomery street, between Clay and Merchant, up stairs.
THEODOR KALLENBERG
MAKER OF MODELS for Inventors,

## A. ROMAN \& CO.

WHOLESALE AND RETALL

## BOOK ESTABLISHMENT.

## 417 and 419 Montgomery atrect,

## SAN FRANCISCO.

## Orubera respectfully solicited and promptly attended to.

A. Treatise on Metallurgy, Comprising Mining and General and Particular etallurgical Operations, Etc. Etc. By Erederick Overman.
A Manuul of Metallurgy, or A Practical Preatiee on the Chemistry of Metals. Manual of Mctallurgy, more particularly of the precious metala; but includlug such others us aro employed in dentul practice.
Records of Mining and Motallurgy, or Facte and Memoranda for the Ueo of the Mibu Agent apd Stwelter. By Jumes Phitips and John Darlington. Piggot on the Chemistry and Mining of Copper.
Practical Mineral Assaying aud Mining. Overman. Gold Mining end Assaying; by Pbillips.
Miners' Companion and Guide, compiled by Silversmith.
Assayers' Guide; or Practical directions to Assayers, Miners and Smelters. Practical Assaying, by Michell.
Silver Ores and Silver Mines, by Prof. Blake.
Ure's Dictionary of Arts, Manutactures and Blines.
Weisbach's Mectanics of Machinery and Engineering. Nevillo's Hydraulic Formula Tables.
Frestaias' Chemical Analysis.
Together with many other workin this \& $\begin{gathered}\text { wimilarlines }\end{gathered}$ 10. Books imported to order on short notice.

## A. ROMAN \& CO., 41 y \& 419 Montcomerv Street.

## DEVOE \& CO.'S <br> STFAM ENGINE

MACHINE WORKS,
 $\mathrm{B}_{\text {Cuttidg }}^{\text {Lacksithing, Turning, hinishing, plaizing, and screw-bolt }}$
$\mathbf{A}^{\text {Gricultural machinery of all hiods mado and reparred. }}$
Thes Duplicate parts of Threshlng and Roaping Mrachines and .
Stcam. Engines and Bonlers consta
cheap. Scrow-Cuttiug Turniug Lathes for sale.
jels
DEVOE \& CO.

## WHEELER \& WILSON'S <br> Family Sewing Machines, <br> with new rnprovenens, <br> JUST RECEIVED,

$A^{\text {re the only perfect machines for }}$ STITCHINC, BINDING, HEMMING, CORDING,

QUILTING, TUCKING, FELLING, GATHERING,

## AND EMBROIDERING.

as also, the
MOST ECONOMICAL FAMILY SEWING MACHINE in use.

4- Call and see the improvements. H. W. WADSWORTH, Agent,<br>Corner Montgomery and Sacramento sts.

## WHILE YOU RAAVE THE MONEY, <br> MAKE SURE OF A HOME 1 <br> NEVER HAZARD THE LAST DOLLAR!

To Cariboo and Salmon Piver Ninners, and all otheri
Who wish to purchase LOTS in San Francisco witha
PEREEC TKTLE:
50.vara The undersigned will sell Building Lots for from $\$ 10$ to $\$ 200$. Also city nan county of San Francisen, on the line of and AT THE WEAT RND DEPOT OF
 dollars, or hundreds, or thousands of dollars, would do well to call on the
undersigned, As EE DRALS ONLY EN LANDS WTTI $A$ PBRFET WTLE, to wit : thoe beld under

A PATENT OF TEE UNTTED STATES 1
Porsons residiog in the inierior, , or who are about to go to the Cariboo or
Salmon River Mines, can purchage this property nud toge it Salmon River Mines, can purcbase this property and leave it without any
fear of adverse claims or tilles springing up in therr abseuce. Tear of adverse claims ordersigned wif desired, give his persanal attention to the anseasing, paying of taxes, etc., on all lots purchased from him, and will forward to each non-resident purchaser his tax reecipts, free of all cost save the actunl amount of the taxes.
Ofice--No. 19 third floor
Onice-N. 19 third floor of Naglee's Building, (south-west corner of Mer-
chant and Moutgomery streets.)
m8-tf
HARVEY S . BROWN.
HARVEY S. BROTNN.
THURNAUER \& ZINN- Freach and German Fancy Raskets, WHIlow Ware,
Chairs, Ladiea Work Stande, etc., 320 and 322 Eattery st.

Our Mint, its Rules, Charges and Operations.
In the columas of a contemporary we observe some exceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857 , while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,386$ 39; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, 2 little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our branch mint. The total expenditures for three years under Messrs. Birdsall \& Lott, amounted to the large sum of \$1.019,275 39. Under Mr. Hempstead, the total expenditures loe four years were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100,000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of up. wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in an equally satis: factory manner.
For parting silver from gold when gold
is below $300-1000$ ths fine
is below 300-1000ths. fine..
selow $300-1000$ ths. fine. .............
from $300-1000$ hs. to $750-1000$ ths fine
.3cts per oz. $750-1000$ ths to $950-1000$ ths " . 14 cts

## Deposits Sluver Bullon-Purchases.

$\$ 1.21$ per standard ounce $1 / 3$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 , 3ets. per oz. gross weight

## 301 " 500 , 7ets,

Deposits for Fine bars
$\$ 1$ 16-4-11ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinkry.
$\$ 121$ ets. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.
Si 16 - 11 Derostred for Dollans.
\$1 $16-411$ ths. per standard oz. $1 / 2$ per ct. gross value for
coining, when gold is contained, refining charge the same coining, when
in purchases.

## Deposited for Iaforted Barg.

$\$ 116-4-11$ ths. cents per staudard oz. $1 / 2$ per ct. gross value of deposit for making bars.
In regard to the deposits of W0
In regard to the deposits of Washoe sivver, the rule will hereaiter be, that the value of gold contained in the same will be paid in gold coin, and the value of filver in silver coin. The value of the silver will be calculated at $\$ 1.21$ per standard $0 z$, and is exempted from the coinage charge, unless deposited for silver dollars, is which ense a charge of $1 / 2$ per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, as most congruous with the physical aspects of the material, but in the warrant it nust be marked that so much is to be paid in gold and so much in silver, according to the con tents reported by the assayer. The above rules, and charges
were promulgated on July 10th, by Superintendent Robert were promul
U. S. Brance Mint, Not. 6th, 1861.

On and ufter the L5th inst., a charge varying in accord ance and the character of the deposit, from half a cent to three cents per oz., gross, in addition to the general rates,
and be imposed on all bullinu deposited for coindge or manuancture, which will require toaghening or extra refining to render it suitable for mint purposes.

Robt. J. Stevens, Superintendent.

## 

## KNAPP, BURRELL \& CO.

## Commission Merchants and

Jobbers of Califonia and Oregon Fruit, Produce, Leather, dec.,
No. 310 Washington street, near Front, San Francisco.

## FOR SALE.

TEN DOLLAR LOTS; also 50 -Tara Lotr, and entire Uncks of beautifu Title perfect,-being held under a patent from the United States. Oflce No. 19, third floor of Naglee's Bulding, at the southwest corner of
Merchant and Montgomery strects.

[^0]HARVEY S. RROWN.
O Third, Sacrmmento City. Jas. Smith, Fropt'r.
R. F. ROCCHCCIOLI, Electrotyner, and Silver Pl
J. PERRAULT, M. D., Physician and surgeon, omce in the Drug Store, 13
m 8 .

HDWARD F. OHM, Watches, Jewelry, Etc-, 615 Montgomery street

## HOSTETTER'S STOMACH BITTERS,

They renovate, purify and strengthen the system, and aid the stumach in the performance of its functions. It is a sovereign specific for imparting, strength, vigor and tone to
the system, and possessing the curative powers for all disthe system, and possessing the curative
eases arising from a disordered stomach.

DYSPEPSIA,
In all its forms, yields to its control and invigorating properties, and that its return is effectually prevented and the digestive powers prescrved in the fullest vigor by a subse quent, occasional use of this remarkable iavig.
disease would seem to have an infinite variety of

## SYMPTOMS:

Among these are constant pain or uneasiness at the pit of the stomach, oppression after eating, spasms in the stomach and diaphragm, morning nausea, pain between the shoulders, fluttering of the heart, constipation of the bowels, irritability,
broken sleep, nightmare, loss of memory, dimuess of sight, prostration of strength, dull, stupefying headache, want of appetite, flatulency, and a feeling of despondency and despair wholly independent of external causes. All the evils in this mouruful catalogue are not merely alleviated, but invariably removed, by a few bottles of Hostrtter's Bitters.

## LIVER COMPLAINT

Persons who languish for years under apparently incurable affections of the liver, the symptoms of which are pain in the right side, pain in the back and loins, a yellow suffusion of the skiu and whites of the eyes. extreme indisposition to exertion, complete loss of meutal activity, despondeney almost amounting to mania, and great budily weakness, all which are vanquished by the soothing and invigorating properties of this restorative.

## TO PERSONS WHOSE HEALTH IS BROKEN DOWN.

When the flames of life wane and quiver from exhaustion, administer this famous restorative. It will once more become steady and strong. In the debility which follows violent fever, in diarrhcea, dysentery; dyspeptic complaints and cholic ; in the weakness cousequent upon natural decay, or resulting from free living or over-exertion, and also in those painful and too much neglected ailnents to which ladies, are exclusively sulyject, the Bitters never fail to give permanent relief.

## CALIFORNLANS

Should test the merits of Dr. Hostetter's Stomach Bitters. While it is highly palatable as a beverage. it is unequalled as a tonic and invigorator. In the pursuit of a fortune at the mines, many persons are exposed to attacks of com. plaints of the digestive organs, and of various kinds of fever. It is the very article that has so long been in demand at the mines.

## FEMALES.

Thousands of ladies resort to it as a remedy for hysteria, fluttering of the heart, nervous headache, rertigo, general debility and all peculiar disturbances and derangements to which, as a sex, they are subject. It cheers and lightens the depressed mental powers as well as strengthens the body, and its use is never followed by any unpleasant reaction.

> WORD TO THE AGED.

In the decline of life, the loss of vital force consequent upon physical decay, can ouly be safely supplied by some vivifying preparation which recruits the strength and spirits, without entailing the exhanstion which is always the final effect of ordinary stimulau:s. It tones the stomach, inproves the appetite, acts like a charm upon the spirits.

## BOTH SEXES,

Who suffer from general debility, without any physical pain or other symptoms of a deranged organization, will find great benefit from their vivifying influence on the frame and constitution ; and where there is a deficiency of vital force they communicate the energy and vipacity which nature has neglected to supply.
The feeble girl, the ailing wife, the nursling nother, the overtasked man of business, the man of pleasure, under the reaction that follows over-ezertion, and all who have a predisposition to paralysis, will do well to resort to this incomparable tonic and restorative.

DR. HOSTETTER'S STOMACH BITTERS
Should be in the possession of everybody in the mining region. As a preventative against various diseases to which the gold seeker is liable, it has no superior. In all cases of Diarrhcea, Dysentery, and the pervading fevers consequent upon exposure, the Bitters will be found invaluable as a corrective.

## COUNTERFEITS.

Counterfeits are said to be the homage paid by knavery to success, and from these left-handed compliments Hostetter's Stomach Bitters have not been exempted. Vile imitations of the article are abroad, and the public are earnestly requested to be on their guard against them.

Sold by druggists and dealers everywhere.
HOSTETTER, SMITH \& DEAN,
Sole Agents for the Pacific Coast.

CORNS AND BUNIONS REMOVED.
Dr. BYRON C. KENNEDY, practical Chiropodist, ate of Philadelphia, would most respect fuily inform the citiZens of Sun Francisco that he has ppened his office at No. 12 Montgomery street, opposite the Lick House, where he is
prepared to remove all excresences, such as Corns, Bunions, prepared to remove all excresences, such as Corns, Bunions,
Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Oallosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic U1cers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A . м..., and 2 to $6 \mathrm{P} . \mathrm{m}$. Having devoted six years of study to this important, bat too much neglected, brunch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my speciality for nine years, enables me to operate skilfully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lolty position in the profession.
Voizio is an illustrious example, a shining light, among the philosophical stars of Europe, and Dr. Byron O. Kennedy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pan, complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this cuuntry, in this branch of the profession, througlout the United States,
'The following letter, which emphatically speaks for itself, was written by Dr. W. L. Stevens of the University Colleg. of Philadelphia:
Br. Byron C. Keninerr: Dear Sir-Learning that you are going to take
your departure for California and wishiwg to turm your departure for California, and wishiug to intorm the citizens of Yhila-
delphit and also the people oi the State of California the esteem in which delphit and also the people of the State of Californin the esteem in which
we hold you, and knowiog that nothing is more essental to your success
than the encouragement which you mily recelve from the people of Phila-
delphia than the encouragement which you miy recelve from the people of Phila-
delphia, in the milst of which is the plaggound of your boybond, and
knowing that you have devoted yoars of siudy to this important but too knowing that you have devoted yours of siudy to this important but too
much neglected brancl of buman kowledge; that you have altained to tho highest riak in your profession, serural of the Fucuity and other prominent citrous of Phitadolphia having submitted to your manipulation, we can re-
 will repay yout tor your yoars of study, and chat jou may find a broud fild
or your oxertio sin the new and growing oity of tho Pacific.
We subseribe nurselves yours, We
Rev
Rechar
Dr Rehard A Van, L, L D,
Dr Sircaud, MD,
Dr $D_{\text {, }}$ Dr Loomis, $M D$,
Clepolo stevens, M Samuel lianenst, MD,
Walter C Foster, MD remove i a cancer from my midile fuger, which I had no years. He also

John Corbott, M D,
Capt Meclure,
Wm H Mills, J
Rey Walter iw


#### Abstract



Referescers: $$
\begin{array}{l}\text { Mrs Smith, (ireene street, } \\ \text { Mrs W L Howard, } \\ \text { Walter } 11 \text { Foster, Cum Mor }\end{array}
$$ | Miajor Comsfock, |
| :--- | :--- |


amuel W Howard. Au'y at Lan,
From Dr. W. L. Stevens: Dr. Kennedy has operated upon my feet, and has
effectually cured me of some torturiug pests that I have been annoyed with rectualy cured
From the Rev. Walter M. Thompson : This is to certity that while sojourt ing in Philicielphia, ir. Kenuedy has operated on three of my family $w=\mathrm{m}$ entire sativfaction. From the Hon. Wm. M. Thorn, ex-member of the Ohin Lepislature: This is
to certify that I called on Dr. Kennedy to operate on wy feet: He displayed
creat skill as nsurgeon, and I am sntisfied that he has effectually curce mo reat skill as n surgeon, and I am antisfied that he has ciffectually cured mo Fram coo Pmerly 637 sch strect. Thio is to certlfy thet
From Geo. F. Omerly, 637 Arch strect: This is to certly that I called on
Dr. Keanedy. He has operated on my feet to my entire salfaction. an 21
50 lbs. MLARINE AND FIRE-PROOF PAINT

## DIRECTIONS :

For Decks of Ships, use two parts Mineral Paint, ene part White Lead, mix
ith Linseed (oil.
For Bottons of Yessels, use one part ground sulphur, three parts \$ineral Paint, mix with Cnal Tar and aplyy it hot. For sale by all ship Chandlerrand Trudesmen, in bozes of 50 zbs . each, or he Pacific دelawurg
25 lbs. Fire-Proof Paint,
When usel on Roofs, Buildings, or Fences, it is equal to covering them
with a coat of Stone, being porfectly Fire. Proof, and coastiug less than any DIRECTIONS :
HOUSE :-Mix three parts Mineral Paint with one part white lead, thin Wita Linssed oil : If a haghter color is wanted, mix inss mint, more lead.
ROOF :-Five parts of Mineral Paint, one part white lead; mix with ROOF :-Five parts or oneral Paint, one part white Lead, mix with Gill last threo years. $\quad$ S. C. BRADNHAW, Agt.,

WORKS, North Beach; Office, 318 California st., SAN FRANCTSCO

K NAPP, BURRELL \& CO-Commission Merchants, Dealer
ap25 H. TTIERR \& CO.-Dealers in Roasted and Ground Coffee, Spices, se
Office, 220 Fronl atreel. Mills, - cor. Fremont aud Msaion. FIVMAN BROTHERS, Importers and Manufacturers of Brushes \&c. No.

#  

A JOURNAL OF MININU, AGRICULTURE, MANUFAOTURES, SCIENCE, AR'T, CHFMISTRY, INVENTIONS, ETC.
VOL. VI. SAN FRANCISCO, SATURDAY, NOVEMBER 8, $1862 . \quad$ NO. 4.

MINING AND SCIENTIFIC PRESS.
THE ONET MINING, MECHANICL AND SCTENTIFIC PAPER ON THIS CONTINENT.

## THIRD YEAR: VOLUME TI.-NEW SERIES:

180. It Tolume of this extensively circulated paner commenced Sept. 11 , 11 , concerning Minlog, *cientufe, Mechanical and Industriul pursuls, together
with muceral origual engraviugs, wf new inventious, eto., prepared oxpressly Thia laluer is devoted to the above purposes, together with the interest of science, Arts, Agriculture and Cormmerce, and any gencral informution that may bu of interest to tho reater : and it is the intention of the proprie luformatios to auy paper yet published.

## The Mining Interest!

nod it of kreat value, as wing news apportsioing to Biuing, the prices and sales of Miniug Stockn, new inventions of slachinery
adiaposi to twat purpose, and of every thing genorally that may be or servic to the Sliner. The Inventor
Will fad it an oxceltent medium for the purpose of bringing his invention into notlee, of ascertaining tho progress of invention in this and other countres. and his patent, the prumrietor having had great expericniee os


## The Mechanic and Manufacturer !

Will be greatly bencfited by ita perusal, as each number will contann aev.
eral origioal engravings of new machines and inventions, together witha large entuuat of reading matter appernining thereto. We are constantly receiving the best scientiic journals from all quarters, from which we Rhall con
reaulers.

To Chemists, Architects, Millwrights and Farmers ! This jnurnal will be invaluable. All new discoveries in Chemistry will be kiven, and a large amount of information of great service to Arccitects and
Biilwrights will bo found in nur columus. The Farmers and Planters will pot be neglected, eugravings will be given of agricultural implements, and the farming interest generally will be amply discussed.

Terms.
To mall subscribers :-Four Dollars perannum.
Five Copies for Six Months, 88.
Ten Copies for Six Months, \$16.
Ten Copies for Twelve Montlus, $\mathbf{8 3 0}$
Fifteen Copies for Twelve IJonth,
Tor anl clubs of Twenty and over, the yearly subscription is only 5280 Names cau bo sent iu at different times and from different Post-ofices Specinen copies will be sent gratis to any part of the country.
Ronm 24, (formerly) U. S. Court Building, Corner of Washingtrn and Bat

Regarding Patents.
We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Our arrangements are such that we can have all the papers prepared, transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter into our hands; thus saving at least three months delay.

The expense to the applicant would be rather less, if the business be done by us, than if the papers were sent to New York or Washington.
Thus by patronizing a home institution, our inventive citizens can save both time and money.
We have prompt, intelligent and reliable agents in the city of Waskington who attend punctually to all Patent business sent to them. We have agents, also, at London, Paris, Brussels, Hamburg, St. Petersburg, Berlin, Vienna, and other European capitals.


## Distance to which Sound will Travel.

The cannonading at the first battle of Bull Run was eard in Preston county, Virginia, 124 miles distant. At a place called The Glades The sounds were faint, yet dis tinet, and so obviously due to artillery as to attract the attention of very many people and produce the conviction that a battle was going on, though it was supposed at the time to be at no great distance. Two persons in particular, gave close attention to the reports during most of the time. Two young ladies, also, of the family of Mr. Freeland, went after dimner to the top of a hill near by, where they heard the reports more distinctly, and remained there listening an hour or more. At night people carne in from the neighborhood to learn where the battle had been.

At Kingwood, the county seat, the cannonading was heard more distinctly than at The Glades, the place being on higher ground.
Army officers at Oakland, some 15 miles west of King wood, on the Raltimore and Ohio Railroad, heard the same, and said a battle was going on.
The subject was a matter of common remark that day, and the next, before the news of any battle had been received. The sound came from the east or southeast. The day was clear and calm, with little or no wind, The next day the wind was from the east, with rain. The places named are nearly at the snmmit of the Allegtanies. Kingwood is about 125 miles from Bull Run in an air line.
The above facts were communicated by Mr. C. S. Lyman,
t) Professor Silliman of Yale College, by whom they were published in his Journal of Science, with the following commeats :-
It is a commonly receired opinion that sound travels far ther and more loudly on the earth's surface than throngh the air-thus the cannonading at Jena in 1806 was very feebly heard in the open felds about Dresden-distance 92 milesDresden. The Glades are nearly at the height of land of that part of Virginia, probably not less than 2500 feet above the sea. It is certain that at a great number of places with in a radius of 125 miles from Stone Bridge, where the Bull Run cannonading occurred, the sound was not heard-and it seems probable that its distinctness at The Glades was from the experience of aeronauts that sounds are heard with much greater distinctness from the earth to a balloon than on the earth from the balloon. In deep valleys sound may be cut off by reflection, the mountains acting as screenswhile the same sounds are distinctly heard on eminences at greater distances.
This is probably the greatest distance at which cannona ding was ever heard.

Capt. Ericksson says that either of his two new Monitors will, by their great strength and wedge-shaped prow be able to split an iceberg.

Copper Ore.-The Messis Molitor of this city have re cently received a quantity of specimens from the Burr Burri copper mines, Australia, which are quite interest ological interest.

Improvements in Iron and Steel.-At a late meeting of the London Institution of Civil Engineers, a general retrospective view was given of the material progress of the world and the improvements which had been made in the iron manufacture during the last few years, and the changes that were now taking place were referred to ; and it was stated that the result had been that, whereas the annual "make" of a blast furnace in the year 1750 was only about 300 tons, now it ranged from 5,000 to 10,000 tons per annuw ; and, in a lew cases, amounted even to 15,000 tons per annam. In reference to wrought iron, it was said that the plan of reversing the rolls had been considerably extended, and occasionally a second pair of rolls had been placed close to the first, running continually in the opposite direction, so that the iron could be rolled either in coming forward, or in going back. Plates 11/4 in, thick, by 3 feet in wide, and 20 feet long, and plates $41 / 2 \mathrm{in}$. thick by 3 feet wide and 15 feet long had been rolled, as well as bars up to 72 feet long. Most of the improvements in the manufacture of steel had been introduced within the last balf century. Cast steel bells, weighing 5,300 pounds had been made in this country, and castings of steel weighing 10,000 pounds in Austria. Large plates and very heavy bars had been made of puddled steel, produced direct from cast iron; and, lastly, steel wire, when hardened to about a deep blue temper, was found capable of carrying 130 tons per square inch. More than one proces had been used in the production of cheap steel, which had been found by recent experiments to possess nearly donble the strength of ordinary iron, accompanied by other valuable properties. With regard to the application of iron, a new era commenced with the construction of the Conway and Britannia Bridges; as the elaborate experiments made prior to their construction tended to prove that previously received theories were in some respects erroneous. Again, the building erected for the Great Exhibition in 1851, from its lightness and security, called attention to the bitherto uudeveloped capabilities of the combined use of cast and wrought iron for such purposes.

Coal Wasted by Breaking.-An immense amount of coal is wasted in the coal mines by the process of breaking up the coal into the priper size for market. In this opesation a large per cestage of coal is finely pulverized, and is thrown aside as unsaleable. This five and wasted coal is of the purest quality. A correspondent of the New York World, writing from the Pennsylvania coal mines, states That at a single colliery, doing a good business, four hundred tons of coal a day is made to pass through the machine or breakivg up the lumps, and the waste is about twenty per cent., or eighty tons daily. All this amount has to be mined, brought to the breaker, (two iron cylinders, with iron teeth, revolving in a horizontal position, panneled to each other, and about ten inches apart,) and after this process of destruction, has to be carried away and piled up. One will see at any colliery of several years' standing, hundreds of thousands of tons of this now worthless article-very pyramids. All this, except what little is made in the mines by blasting. has to be paid by the operator, aud is a loss to the owner of the land as well as to the human family, and adds price to that which the consumer buys in the market. The waste at the collieries in Schuylkill and Luzerne counties, Pennsylvania, is believed to be over one million tons anuually , worth $\$ 5,000,000$. The question is now asked, is there no way to save this valuable fuel? Here is a chance for inventors. Artificial fuel is now made in England from coal dross combined with a small amount of adhesive substance, such as coal tar, and it is used on long voyages by many of the best steamships. This artificial fuel is pressed into blocks, and is well adapted for packing in coal bunkers.

A new asteroid was discovered Sept. 25th. It is in the constellation Pisces, and is of the eleventh magnitude.

SCIENTLEIC BALLOON ASCENSION.
An interesting balloon ascension was recently made in Englaud by Mr. Glaisher, for scientific purposes. The asceusion was made in the mammoth balloon belonging to Mr. Coxwell, who accompanied Mr. G. as aeronaut. The adventurers regched the highest point, above the earth, ever risited by man, and their obserrations have added an interesting and important chapter to the history of science.The expedition was carried to an extent exceedingly dangerous, and indeed, was near proving fatal to one of the parties. We append the chief points of interest as given

The Frekzing Pons was found at the height of two miles. At an elevation of three miles the thermometer stood at $18^{\circ}$ above zero and at five miles $2^{\circ}$ below and no dew was observed on the hygrometer when couled down to minas $30^{\circ}$. Up to this point the observer, Mr. Glaisher, had experienced no dificulty in breathing, while Mr. Coxwell, in consequence of the necessary exertion he had to make, had breathed with difficulty for some time.

Dimness of Sight beman to be experienced at an eleration of tive and a quarter miles, which Mr. G. thus uarrates:
At a height of about $51 /$ miles, I read the dry bulb as minus $5^{\circ}$ : in endearoring to read the wet bulb I could not lens, and also failed. I then tried to read the other instruments and found I could not do so, nor could I see the hands of the watch. I asked Mr. Coxwell to help nee, and he said he mast go into the ring, and he would when he was lying on the table at about the distance of a foot from my hand, and found myself unable to do so.

Total Loss of Power was indicated at about five and three quarter miles elevation, as will be noticed from the following continuation of the above paragraph;-

My sight became more dim : I looked at the barometer and saw it between 10 and 11 inches, and tried to record it, bot I was unable to wriet. I then saw it at 10 inches, still
decreasing fast, and juist noted it in my book; its true reading, therefore, was at this time about $93 / 4 \mathrm{inches}$, implying a height of about 53.4 miles, as a change of an inch in the reading of the barometer at this elevation takes place on a all power, and endearored to rouse myself by struggling and shaking. I attempted to speak, and fonod I had lost the power. I attempted to look at the barometer again my head fell on one side. I struggled aud got it right, and it fell on the other, and finally fell backward.

My arm, which had been resting on the table, fell down by my side. I sanr Mr. Coxirell dimly in the ring. It be-
came more misty, and l sank unconciously as in sleep. I cane more misty, and l sank uncouciously as in sleep. X Take an obserration; now try." But I could neither see, move nor speak. I then heard him speak more emphatically; "Take an observation : now. do try." I shortly afterward opened my eyes, saw the instruments and Mr. Coxwell very
dimly, and soon saw clearly, and said to Mr. Coxwell, "I dimly, and soou saw clearly, and said to Mr. Cuswell, "I
have been insensible;" and he replied, "You hare, and I nearly."

I recovered quickly, and Mr. Coxwell said, "I have lost the use of my hands; give me some brandy to bathe them.' His hands were near y black. I sam the temperature was increasing quickly. I resumed my ebservations. I found that the water in the vessel supplying wet bulb thermometer, which I had by frequent disturbances kept from freez. ing, was one solid mass of ice. Mr. Coxwell then told me that while in the ring he felt it piercingly cold, that hoar frost was all round the neck of the balloon, and on attempt 1ng to leave the ring he found his hands frozen, and he got down how he could; that he found me motionless, with a quiet and placid expression on the countenance. He spoke me rithout eliciting a reply, and found I was insensible.
He then said be felt insenisbility was coming over himself; that he became anxious to open the valre; that his
hands failed him; and that he seized the live betireen his hands failed him; and that he seized the liue betireen his
teeth, and palled the ralve open until the balloon took a turn downward.

Mr. Glaisher is of opinion that the balloon, during their state of partial insensibility, and at the time Mr. Coxwell opened the valve with his teeth, must have stood at an altitude of 6 , if not $6 \stackrel{1}{2}$ miles from the earth !
Six pigeons were taken up. One was thrown ont at the height of three miles; it extended its wings and dropped as a piece of paper. A second, at four miles, flew vigorously round and round, apparently taking a great dip each time. A third was thrown out between four and five miles, and it
fell downwards. A fourth was thrown out at four miles, fell downwards. A fourth was thrown out at four miles.
when we were descending; it flew in a circle, and shortly afWhen we were descending; it flew in 』 circle, and shortly afpigeons were brought down to the ground. One ras found
a note. It would not, however, leave, and when jerked off the finger, returned to the hand. Atter a quarter of an
hour it began to peck a piece of ribbaud encircling its neek hour it began to peck a piece of ribband encircling its neck
and I theu jerked it of my finger, and it Gew round two or three times with vigor, and finally towards Wolverhanupton. Not one. howerer, had returned there when I left ou the afternoon of the 6 th.
$\mathrm{Mr}, \mathrm{G}$. adds the following by way of inference;
It would seem from this ascent that five miles from the earth is very near the limit of human existence. It is possible, as the effect of each ligh ascent upon myself has been different, that on another occasion I might be able to go higher, and it is possible that some persons may be able to exist with less air and bear a greater degree of cold ; but still I think that pridence would say to all, whenever the barometer readiug falls as low as 11 inches, open the valve at once; the increased information to be obtained is not commensurate with the increased risk.
The London Times, commenting upon the perilous enter prise, observes
The aerial voyage just performed by Mr. Coxwell and Mr. Glaisher deserves to rank with the greatest feats of our experimentalizers, discoverers and travelers. It is true these gentlemen have not brought down a very comfortable or in spiring report of the upper world into which they have pen-
eirated. Science and poetry are unhapily rather at variance upon the subject of the air and the sky. Poetry points up ward to the sky with glowing rapture as the scene of brightness and gloiy, and a residence there figures as the reward of heroism and grentness. Everything is happy and splendid that is connected with the sky. But science penetrates with its material, ye into those vast upper spaces and simply eporis a great difficulty of breathing there; that the blood stagnates, the limbs hecome benumbed. the senses evaporate, and natare faints in unconciousness. The very birds will not Gy in that verysky which is their poetical home. The distinction is that poetry looks up to the sky from below, and science examines and feels it on a level. The sky is the emblem of poetry, the fact of science. Both aspects of it are
equally true, but the point of view from whin they are taken is quite dfferent. But, though our recent explorers of the sky do not add to its brilliancy as a pieture, they have furnished one morestriking and impressive scene to the his'ory of science. They hare shown what enthusiasin science can inspire and what courage it can give. If the man, as the poet says, had need of "tripple steel about his breast" who first launched a boat into the sea, certainly those had no less need of it who first floated in the air six miles above the surface of the earth.

Mark West Crerk Coal.-The newly opened coal mine is a matter of no ordinary interest to the people of this part of the coustry, and great hopes are entertained of its extent and value. A sample load of the article was shipped on Wednesday to San Francisco, where judgement will be pronounced of its merit. Should the quality prove good, no one as yet doubts of the quantity obtainable. The company, styled the Healsburgh Coal Mining Company, was formed about the first of May, and has been prospecting up to the present time, having, at the depth of 126 f. et, found a
ledge of coal that works well in a forge, and we think will turn out better than any yet found in the State for the manufacture of gas. We understand the company intend furnishing the Petaluma steamers a sufficient quantity to prove its efficacy for steam and foundry purposes.
On the Gth ult. the first meeting on
On the 6th ult. the first meeting of the company underits inco
President-W. J. Harrison ; Secretary-J. G. McMannus; Treasurer-G. H. Peterso
Wattles.-Healsburgh Review.

Magntefcent Tien of the late Battle of Antietain A correspondent of the New York Tribune writing of the great battle of Antietam, on Wednesday, September 17, says: The opportunity for seeing the battle was unparalled. siugle stand point commanded nearly the whole field from dawn to dark. No one who looked upon that wonderful panorama can describe it; neither can any one who saw forcountry, and he was pressed back. But every hill and val ley, every corn-field, grove and cluster of trees was fiercely fought for. The artillery was unceasing; we could ofter count nore thac sisty guns to the minute; and the muskelsy was like the patter of rain drops in an April shower.
On the great broken feld were riderless horses and scatterOn the great broken field were riderless horses and scatter
ed men ; clouds of dirt from shot and exploded shells, long dark lines of infantry swaying to and fro, with columas of smoke rising from their muskets-with flashes and white puffs from the batteries-with the sun shining on all this scene of tamult, and beyond it, upon the dark rich woods and the clear blue mountains, flows the Potomac. Amid all the screaming of shot and thundering of cannon and whist ling of balls with the fearful caruage they brought, I saw no considerable breaking among our troops, save with severa
The Mining Companies recorded in. San Francisco, in $\$ 15,345,000$.

Silyer Mining in Norway.-The silver mines of the vition of the English mining public. It is reported that an English Company has purchased the Anna sophia district, and intends to work it in a spirited manner. Operations hare been suspended there since 1805 . A correspondent of the London Mining Journal makes the following observa-
The Kongsberg Mines are unquestionably very remunerative, but the State retains in its own possession the very limited territory where native silver is likely to be found in sufficient quantity to pay for working. A Norwegian comipany has for some years been exploring the most likely district jin the neighborhood of the Kongsberg Mine, and every year cousiderable calls have been made. The other setts were taken up by speculators without capital, on the chance of selling them in London; though such a transfer is, by the conditions of the auction at which the setts were ac quired, illegal. No doubt silver exists beyond the bounds of ties, as well as by the Gorernment, prove it ; but the quan tity has been in every case inadequate to meet the expenses; and whatever is found must be sold at a fixed rate to the royal smelting-house.

Stratgiteninga Chimner Stack.-This operation, for restoriug the collossal chimuey at Port Dundas to a perpendicular and safe position, has been successfoly completed.This was accomplished by sawing several of the mortar beds between the cources on the side from which the chimmey leaned, thereby allowing it to come back by its own weight, without the application of any exterual force. Only one droft was cut at a time, to guard against any shock which might have endangered the stability of the building ; and by keeping the saws wet, a bed of mortar was prepared for the superincumbent weight to settle down upon. Twelve cuts were made in this manner on different parts of the structure, which generally set before the saws had passed through half of the circumference, particulariy in those made nearest the ground, where the weight was greatest,
Mr. Duncan Macfarlane, architect, by whose advice this method was adopted, saperintended the undertaking. The principle dimensions of the chimney are:-'L'otal height, 408 feet; from surface to top of the coping, 454 feet ; out side diameter at foundation, 50 feet; at surface, 34 feet; at coping, 14 feet. According to calculations made by Professor Rankine, the building, independent of the adhesion to mortar, is capable of sustaining with safety a lateral pressure of 66 los. per saperficial foot at its weakest point, being 11 ibs. more than the force of the greatest storm registered in this country.-North British Mail.

A5s A great rarity in the shape of a coin has lately been sold in Paris, namely, a silver one struck off at Breslan, 1751. Among the persons employed at that time in the mint was an Austrian, who, out of hatred to Frederick II, of Prussia, who had taken possession of Silecia by right of conquest, conceived the idea of revenging himself on that monarch in the following manner: The motto on the coin, Ein reichs thaler," [a crown of the kingdom,] he divided in such a manner as to make it read, "Ein reach stahler,' (he stole a kingdom.) The king ordered these insultid
coins to be all melted down, but some of them still exist.

AEs A new field gun has been invented, designed to throw grape and canister with tearful rapidity and effect.It consists of five barrels, a sliding breach, having a corres ponding number of chambers in which the charges are in serted, the gunner having no occasion to go to the front of his gun. A shield of metal plate, at an angld of forty-five degrees, protects the gun and the cannoniers. It is easily coustructed, and in an emergency may be effectually disabled. The chambers are formed by longitndinal bars, the whole securely bolted together. The bore is square. The inventor claims to be able to throw with a full battery near ly a thousand pounds of grape in every forty seconds. I'he gun, by a pecuisar constrnction, scatters sideways only, not up and down, as in ordinary guns.

Tae Coal Fields of Onio.-It is almost melancholy to contemplate the vast beds of coal and ore in the United States, and see how little there has been done to develop them, while we are annually paying Great Britain millions upon millions of dollars for iron manufactures. The coal fields of the single State of Ohio are larger than those of Great Britain, while the latter has been used with such skill and energy as to create a manufacturing industry and production, beyond anything the world has ever seen, in an equal space. Ohio can produce more than thirty times the coal it now produces annually. The entire amount of cial annually produced in Great Britain, may be mined in Ohio for 500 years, without exhansting more than one seum, there are four or five seams. The 12,000 square miles of coal in Ohio is scarcely a fourth part of the coal basin of Which it is a part, compreheuding large portions of Western Pennsylvania, Virginia, Kentacky, and Tennessee. This is the Eastern coal deposit of the North-Western States but there is also a Western of still greater magnitude.

## to shining companies.

We earnestly solicit from mining companies and asspciations the following blunk statement, filled according to the data hereby accompanying. 'I'he purpose for which we seek this information is impurtant to overy citizen and stockholder on this coast ; it would also be prodnetive of beneficial results-i. e., inducing capitalists to invest in our mining operations, thereby infusing nevv life and vigor into business generally in our States and Territories. Little, if anything, is known of our metallic wealth in Europe or the Eastern States, hence we desire as much of the blank filled by you as may be interesting and instructive to the people of this State and those interested abroad.
We know of no mining district in Furope or Americu where this kind of information is not willingly rendered by parties owning property of this nature; and we know of no better medium for making public the richness of our mines. We shall send blanks to mine and uill proprietors for every quarter, and will gladly publish the contents for the information of the community:


## Routes and Fares from sin Fxancisco to Foroign and Domestic eities.

Prcific Mrail Stermsluip Company-Steamers leave for New York via Panama, on the 1st, 11th and 21st of each month. 1st cabin, $\$ 250$; 2 d cabin, $\$ 200 ; 3 \mathrm{~d}$ cabin or steerage, $\$ 100$.

Nicaragua Sieamshipline, Ross, Dempster \& Co., agents. -Steamers leave for New York via isthmus of Nicaragua, on the 21st October, and semi-monthly thereafter. Price of fare not yet stated.
To Portland, Victoria, \&c., \$60. Crescent City, Trinidad, \&c., $\$ 20 \$ 30$. Sun Diego, Monterey, and Los Angeles, $\$ 20$ to $\$ 30$. Sand wich Islands, per sailing vessels, $\$ 100$ to $\$ 150$. Australiz, sailing vessels, 1st class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, lst class, $\$ 200$ to $\$ 250$. Mexico, $\$ 30$ to $\$ 50$.
Culifcriica Steam Navigation Company dispatel steamers duily to-Sacramento, $\$ 5$; Stockton, $\$ 4$; Peta'uma, $\$ 3$. Overland Mait Company - Stages leave daily for St. Louis nia Salt Lake; fare, $\$ 200$.

## DEETKEN'S

 Chemical and Metallurgical Works, ON SAN BRUNO ROND, ISLATS CREEK, SAN FBANCINooC LEAR GOLD BEARING SOLPBURETS WORKED AT \$20 PER TON ALt Gux Gow Exractel by Chemian procees. Yield of Sulphuret from 30 th 50 per cent higher than tho BEST AMALGAMATION PROCKSS ת cust
ter required for the purposis. Homestends Cheapor than Proposed umder the Shafter

UNDER THE PROVISTONS of what is knowhe athe Shafter Rill, it is proDiped to sell the ci'y title to homestead low for twenty-fve to two hun drell iollars each. The undersigned sell homesticam iots within fie limits of the city, and miles nearer to the business ceutre that many of the lituds covered by the

 patented by the Üited Stntes. Tho Shafter yitlr respects this title : the city
authorities respect itt the District Court and he Supemme Court of the State,

 AND JDGEMENT AGANST THE CTTY so that there is not even a cloud or
Rhdow upon it. Whoever purchases one of these lots will buy a lot, not a
ing
 hy brown.

## REMOVAL.

 Nis removed to 318 California street. Having enlarged our Works at
North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock ner day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.
COPPER OBES-Highest market rates adyanced in ensh, for shipments. my30

318 California street, near Sansome, up stairs.

## LEANDER RANSOM,

CIVIL ENGINEER

## AND SURVEYOR,

Having been connected with the public works of the State of Ohio for 20 years, and the public works of the State of Califoruia for 7 years.

## ALSO, STATE LOCATING AGENT.

And as such having tho sale of
600,000 ACRES OF TIE STATE SCHOOL LANDS, At the low price of $\$ x, 25$ per Acre.
Dy. Terms-Twenty -ive per cent. in cofsh, nat the balanco on a crodit of
suveral years. OHFal years.
OFHE :
and Cillifornia, strect
oc 3 m

GENCY FOR PATENTS. - The undermgned having been long es wuts for athuding to the interests of faventors ing favorable arrange Fushington, offer their sorvicus for the socuriug of Covents and lateuts also, willatten to the Ealos of Patent Rights, und to ath mattors counucted With patonted javeations.

## WETTULRED \& TIFFANY,

Office, 410 Montgomery strect.
CHARLES R. BOND, fato City and County Assessor.I REAL ES'ATEAGENT, 410 Montgomery street, San Francisco.
REAL FSTATE PURCHASED AND EOLD, LOANS NEGOTLATED
Washoe Stock Exchange,
N. E. cor. Montgomory and merchant sts., SAN FRANCISCO.
L. W/NFWELL \& CO.,

Buy and sell Washoe, Esmeralda and other Miniog Stncks and Securities. sep20

THEODOR KALLENBERG,

## MAKER OF MODELS for Inventors,



No. 4 Sansomestreet, comer Market, San Francisco..

## DEVOE \& CO.'S STFAM ENGINE

## MACHINE WORKS,

Corner Market \& Fremont qutreets,
A ILL KINDS OF MACHIXRERY, SICE AS STEAM ENGINES, SAW MML Asso.
BLACISMITHING, TURNING, FINISHING, PLANING, AND SCREW-BOLT Gricu
$\mathrm{A}^{\text {e }}$
Noy nuplicate parts of Threshing and Reaping Machines a Threshing Teeth made to order, on the most reasonable terms. Steamn Engines and Ronlers constantly on hand, and for sale cheap. DEVOE \& CO.

## LATEST IMPROVEMRNT

## In LADIES' BUEKIES.

M R. REICHEL RESPCIFULLY ANNOUNCES TO THE LADIES OF THIS State, as woll as to Jewelers and dealers in Jewelry, that he has made mportant improvements in BUCKLEs, which surpass any and all heretosfore made. Their simplicity, commodiousness, and beauty reader thein the most useful as well as ornamental trinkers.
Orders from the country reepectfully solicited. For particulars call at or address,
sep11
REDERLK REICHEL,
Janufacturing Jeweler

## NEW ENGLAND EWING MIAC HINE for $\$ 25$

$T$ HIS MACEINE stands confessedly at the head of everything now before I the public. In cheapuess, with speciay reference to the wants of a family, and any one with the ald of the prinerd directions can learn to work it successfully in a few hours. It will harkfrom leather to the fluest cambric without the change of needle, tension, offeed. It gives tho best salisfiction
where it is sold, and all who use or exardine pronounce it better adapted to where it is sold, and all who use or exapuine pronounce it better adapted to
meet the wants of every family than ghy other machine now olfered to the public. Guage and heminer atachad.
Every machine warrantel, and bopt in order free of charge. This is the only cheap machine that will do all kinds of family rewing. $\begin{array}{r}\text { sepl1 } \\ \hline\end{array}$

W Deeds for California Virgina City, N. T.

THE FOLLOWING GOODS TO BE FOUND AT
H. D. PEARCE'S:

Gents' Heavy Gold Cases, different patterns ;
Ladies' Heary Gold Cases, do do;
Gold Telescopic Pen and Pencil Case;
Extension Screw, Heavy Silver, for Gents';
Extension Screw, Heavy Silver, for Ladies ;
Silver Extension Cases;
Silver Telescopic Cases;
Screw, Silver and Ebony Desk Holders;
Slide Silver and Ebony Desk Hoiders;
Reverse Silver and Ebony Dosk Molders;
Pen Holders, Silver and Ebony;
Pen Holders, Gold and H6ony:;
Pen Holders, Gold and Ivory;
India Rubber Propelling Pen and Peacil Cases;
India Rubber Propelling Pencils, short.
D2. All the ubavo goods are made to order nad warranted; will bo sola elieap for cash. Thero are some thirty different patterns, lenving an opportunity for parties to select and bo suitod.
A chenper clase of Pens direct from New York, at wholesale ooly.
nos Gold Peus coustantly ou hand. Gold Penss repaired.
ant ${ }^{\text {an }}$ H. D. PEARCE,
G06 Montgomery strect, between Clay and Morehant, up stairs.

## GREAT REDUCTION in prices. <br> STANFORD BROTHERS,

121, 123 and 125 California Street,
KEEP THE LARGEST STOCK OF ALL KINDS Lamp Stook,
And will scll Cheaper than any House in this State.
LAMPS,
CRIMNEYS.
CAMPHENE,
burning flutd,
tURPINTINE,
COAT OIL,
KEROSENE OII.
COMET ILLUMINATING OIL.
SPERM OIL, LARD OIL,

MACHINERY OIL
RAPE SEED OIL
LINSEED OIL, Raw and Boiled,
POLAR OLL,
SHARE'S OLL,
NEATSFOOT OIL, TANNER'S OIL,

Our customers in particular, and the country trade generally, are requested ascertain our prices before purchasing from traveling asents, as we wil

## PHILADELPHIA BREWERY,

Second street, corner of Folsom, San Francisco, Cat.

## Holscher, \& Wieland Proprietors,

$T$ hankrinl for past patronage to a diserimianating public, we beg jeave bove well known Brewery has been permaneatly located in our new prem ses, on second street-the former residence of Cipt. Fulsom where we slanl endeavor to continue in furulshing our numerous patrons with the best ar-
licle of "Bier." We shall strive to perpetnate lie good reputation for promptitude and the faithful execution of orders as heretorore, and therepromptitae and uene our custom,
by meve

## FULTON FOUNDRY AND IRON WORKS.

## / HINCKIEY \& CO.,

MANUTACTURERS OF STEAM ENGINES,
Quartz, Fhowreand Saw Mills; Cast Iron Fronts for Buildings,
Mining pumps, and all kinds of Machinery,
47 \& 49 First Street,
BET. MARKET AND MISSION, SAN FRANCISCO
ALL kinds of Iron and Brass Castings furnished at short notice. Every
Rephairing to Machinery neatly done style of finishiug to Iron when cast. Repairing to Machinery veatly done
Patern Naking in its various furms. D. B. HINCKLEY WM. E. WORTH. WM A. FIELD

## SQUARZA'S PUNCH.

HOME MANUFACTORY.
No. 44 Lefdesdorfir street, Heare sacramento st.
Branch at 406 Monteomery street. $\frac{\text { my30 }}{\text { my }}$ A. S. ROSEVBAUM \& CO.-Importers of pure IVavana Cigars, Tobs

# 选lining and Scinutific 

W. B. EWER, Editor.

## SATURDAY

NOVEMBER 8, 1862.
The MINING AND SCIENTIFIC PRESS is published at the Federal Buildiag, Room 24, corner of Battery and Washugton stmects San lirancisco, Cal. at Fiffy Cents pes month, or st per annum, in advance. ad-
vertisements, Fifty Cents per line. A liberal diecount made to quarterly vertisements,
advertisers.

## Engravings, Flectrotypes, etc.

naj We execute at this Olfice Rugravings and Tiiustrations on wood, stone, copper, steel, etc. Stlereotpying and Eucchropiva, Designs of every des-
eription-Buildings, sketcles of Towus, Machinery, Stamp Dies, seals for Plain or Colored Printiug.

JOB WORK-executed with dispatch at the cheapest rates.
Patrons will remember that whon we execute engravings wo whi insert them froe of charge in the Mining and Selestime Press, thus giving the advantage of a Wiste Circulation throughout the
vertising Medium to be found in the country.

Notice to our Friends and the Pablic.
The undersigned, your most obedient servant, begs Jeave to retire from the publication of the far-famed and widespread Mining and Scientific Press. In bidding adieu to my many friedds and patrons, I cannot omit expressing my sincere thauks and obligations for the many favors and kind acts rendered unto me: We leave the tripod with regret, though a responsible one, and full of care and much laborFor three years have we labored and toiled for the advancement and progress for which the Press has been called into existence, and we are asured and feel confident that we have not labored in vain. There is, however, much evil to be remedied, and this we leave to our able successor, W. B. Ewer, Esqq, who will from this date conduct the Press, with his usual good judgment, talent and capacity. I wuuld ask the friends of the Press to aid him in his efforts, and to perpetuate the advocate of our chief resources.
In a few months, we take our departure for the Atlantic States and Europe, for the purpose of rendering great service to our Pacific States 1 of which due notice will be given. We sever our connection with the Press so far as business matters go, but we shall ever find time to give through its columns matters of importance regarding discoveries, inventions and improvements in every branch of science, arts and industry, especially when we shall be far off on the European Coutinent. .Very respectfully,

Julites Silversmitre.
San Francisco, Nov. 1st, 1862.
No portion of the globe offers a more inviting field for the publication of such a paper as is contemplated in the prospectus of the Mininq and Scientific Press, than the state of California. The mineral resources of the -Paciicic coast have already astonished the world-not less by their unparalleled richness, than in their remarkable variety and extent. Though but litile over a single decade has elapsed since California was known simply as an exporter of hides and tallow, still that brief period of time, under the magic influence of the few grains of shining metal accidently brought to light on the banks of one of her mountain streams, has been sufficient, under the potent direction of Anglo Saxon energy, to establish within her borders the foundation of an empire which is even now felt as a power in the woild, and to which the nations are already looking as the great center from whence, at no distant day, must radiate all the chief arterial currents which give life and energy to every department of industry and cummerce throughout the earth.
The mineral resources of the Pacific coast, great as they already appear, are yet only in the infaney of their development. Hitherto the attention of our people has been mainIy directed to searching for the precious metals. In the early future a heavier and much more important class of mining is to be undertalsea. Recent explorations have pretty fully demonstrated the existence, in our valleys and mountains, of unlimited quantities of coal, iron and copper, which are the real foundations of all material wealth, and without which no people can hope to rise to any commanding position in the present progressive age of national advancement.
With such a field before us, and in a community so prolific of publications on almost every cenceivable topic, it would indeed be a matter of surprise if not one journal was found devoted to the great leading interest of the State,
and to the mechanieal and industrial pursuits which are the necessary adjuncts of every important mining community Such a paper wo have-already establi-hed and contiuued for upwards of three years, under diseouraging circumstances it is true, but nevertheless continued as the only especial exponent and advocate of an interest, second in prospective importance to none on the globe !
The course of events has thrown this publication, known as the Mining and Scientific Press into the hands and under the control of the undersigned. Numerous friends and parties having a deep interest, pecuniarily and otherwise, in the development of the miveral resources of our state, and the permanent establishment of an organ which shall be a suitable and worthy exponent of such an enterprise, have induced us to undertake the task of its editorial control. We should shrink from such a responsibility were it not for the fact that we have been promised the aid and assistance of numerous well known writers, of practical and scientific attainments, to assist us in our labors; and it is in confident assurance of such aid that we venture to promise the readers and patrons of the Press that this publicaton shall be made both a welcome and instructive visitor to the miner, the mechanic and the merchaut; and that its columns shall ever be replete with information useful and interesting, embracing within its scope all the arts and sciences, and trades and manufactures, in addition to the great leading features of mining and metallurgy.

The miner will find from time to time, carefuily digested, every class of information which shall be useful to himi iu his laborious and precarious calling. We shall arrange, at on earily day, for careful and reliable correspondence from all the important mining sections of our state and the Pacific coast generally, not forgettiag the great mineral region now loomiag up in such magnilicent proportions all along our eastern mountain border. Particular attention will also be devoted to the general interest and advancement of the mechanic and workingman ; and especial effort will be made to render the columns of the Press useful, instructive and advantageous to their peculiar ioterests, by imparting to them early and full knowledge of late and approved discoreries in science and art, and placing in review before them the most useful information already obtained and reduced to practice in their various departments of industry.
In fact, to everything coming within our peculiar field of observation, we shall pay especial attention. The importance of home manufactures and productions, and all efforts of native ingenuity and talent will receive encouraging notice. We shall endeavor to keep our readers properly advised with regard to what the philosopher, the inventor, the artizan, the mechanic and the miner may be doing, each in his pecoliar department, whenever such knowledge shall be deemed of general interest or utility. With these purposes well and truly carried out, we feel assured that our efforts will not be without avail in the general accumuation of useful knowledge, and that they will be duly appreciated, and rewarded with a commensurate support from a community so proverbially liberal in the encouragement of all neful undertakings as Ca'ifornians are universally acknowledged to be. W. B. EWER.
$V_{\text {rry }}$ Likely.--British traders and trappers have found diggings on the east side of the Rocky Mountains, a few miles south of the national boundary. They express the hope that our Government will permit the alteration of the line so that those mines shall be in the British possessions. This expression of "hope" is very modest, to say the least; and we presume the recent cordial and humane acts of our British friends in allowing the fitting out, repairıng and coaling of rebel privateers in their harbors, and at the same time refusing federal war vessels the same priviledges, are considered by them as fully warranting the inference that our Goverument will, in return, oblige them hy changing the national boundery so that certain mines now our own may become British property-very likely!
A Saving.-The California merchants are now paying their debts in legal tenders. By the last steamer one could purchase a draft for $\$ 1,000$ by paying $\$ 800$ in gold, so that the Califoruia trader saved twenty per cent. A handsome profit and easily made.
A new style of light wagon now driven by gentlemen on he road in England is called a wagonette.

A Vrity Proper Precaution.-The Grand Jury of Virginia City, N. T., at their late sitting, recommended that their representatives in the next T Territorial Legislature should advocate the passage of a law compelling. the owners of mining shafts, not in use, to either fill them up or cause them to be properly secured agaiust the accident of persons falling into them. This we conceive to be a very wise and proper precaution, es pecially in the vicinity of all populous neighborhoods. Scarcely a week occurs that we do nol notice the result of severe or fatal accidents which have occured from this source. As we write, oo less than three are noticed in papers lying upon our desk, one of which was fatal. Such legislation might be had as would empower municipal authorities or county supervisurs, to take notice and designate such localities as it might be deemed proper to keep guarded against this class of vecidents. Heartless and deficient in every human feeling must be any party or parties who, atter digging a shaft for the purpose of obtainiug "filthy lucre," and after finding themselves disappointed fail or refuse to place some safeguard over the dangers they have created.
The San Francisco Quicisiluer Mine,-Quite a little excitement was created on Montgomery street a few days since by the exhibition of a very pretty specimen of cinnabar, said to have been taken from a leagé upon the line of the Spring Valley Water Works, at the point where the Company is constructing a reservoir, near the Orphan Asylum. The specimen referred to was quite rich, but a subsequent visit to the locality faled to convince as that the "discovery" is very promising of any other mineral than an excellent article for McAdamising the sandy roads of that vicinity.
A New Invention.-The success of Ericsson in revolutionising naval warfare by the construction of his Monitors, seems to have given a new direction to Yankee ingeunity.Having taught the world how to build and fight those naval monsters, our inventors have already eutered upon the task of teaching it how th destroy them. If they do not succ ed we shall think the "Universal Yaukee" has forgotten his cunning-or iu common parlance is "played out." That such is not the fact we have an en rnost in the following paragraph which we clip from an Eastern Exchange:-
A correspondent of the Boston Traveler, writing from the United States steamer Kearsargo, says that the Chief Engineer of that vessel. Whittaker, has made an invention designt d to destroy iron plated vessels, and that the officers all belleve that he has succeeded. The Cuplain has ordered him home to report to the Nary Department.
Modntain Heights-The height of Mount Shasta has recently been taken by Professor Whitney, of the California Geological Survey, and ascertained to be 14,440 feet above the level of the sea, or 1,450 feet higher than Mount Hood in Oregon. Mount Shasta is the highest mountain in the United States, the measurement of which has been scientifically ascertained.
During the recent visit of the Professor to Washoe, he also ascertained the beight of Mount Davidson 7,827 feet above tide water. Mr Whitney is provided with excellent instruments, and his estimates can be relied upon as correct.
Pronunctation of "Aftietam."-The Baltimore Ameri-ean--good authority-says that the name of the last graat battlefield, should be pronounced An-tee tana. This is not only euphonious, but is the pronunciation employed hy the inhabitants of that vicinity themselves. It is well that a name which is destined to occupy such an important place in history should be correctly pronounced by the people to whose glory it will redound.
An account of a tremendous hail-storm in West Lavington and Easterton, England, is published in the London Times. It is said that the hail fell to the astonishing depth of seven feet in less than half an hoar. Large fields of unharvested crops were ruined, and many fowls were killed.The hail was accompanied by rain, and a fearful flood result-
ed, which filled cellars and greatly increased the damage ed, which filled cellars and greatly increased the damage done.
Cambis. - A train of six Bactrian camels arrived in Virginia Oity, N. T., recently. Each animal came through with six hundred pounds on his back.

## The DNABHilty of Matter.

Everything which is the olject of our senses is composed of matter differently compreea or arranged. But in a philosuplacal sense matter is defined to be an extended, eolid, inactive and moveable subetauce.

Every portion of matter, however minate, must have two surfaces at least, and it follows of course that it is divisible; that is, the upper aud lower surfaces may be separated; and though there may be particles of matter too small for ws actually to divide, yot this arises from the imperfection of our instruments; they must nevertheless, in their nature, be divisible. A few years since a lady spun a single pound of wool into a thread 168,000 yards long. And Mr. Boyle mentions that two grains and a balf of silk were spun into a thread 300 yards in length. If a pound of silver which contains 5,760 grains, and a single grain of gold be melted together, the gold will be equally diffueed through the whole silver, insomuch that if one grain of the mass be dissolved in nitric acid, the gold will fall to the bottom. By this ex periment it is evident that a grain may be divided into 5 . 760 visible parts, 5.751 st part of the gold is contained in a single grain of the mass.

Goldbenters can spread a grain of gold into a leat containing 50 sqnare inches, and this leal may be easily divided into 500,000 parts, each of which is visible to the naked eje; and by the use of a microscope, which magnifies the area or surface of a body 100 times, the l00th of each of these is visible : that is the 50 millionth part of a grain of gold will be visible, or a single grain of that metal may be divided into 50 millions visible parts. But the gold which covers the silver wire used in making what is calied gold lace, is spread over a mach larger surface, yet it preserves, even if examined by a microscope, an uniform appearance. It has beən catculated that one grain of gold, under these circumstances, would cover a surface of nearly thirty square yards.

The natural divisions of matter are still more surprising. In odoriferous bodies, such as camphor, musk, and asfoetida, a wonderful subtlety is perceived ; for though they are perpetually filling a considerable space with odoriferous particles, jet these bodies lose but a very small part of their weight in a great length of time.

It is said by those who have examined the subject with the best, glasses, and whose accuracy may be relied on, that there are more animals in the melt of a single codfish, than there are men on the whole earth, and that a single grain o sand is larger than four millions of these animals. Now i it be admitted that these little animals are possessed of organized parts, such as heart, stomach, muscles, veins, etc., and that they are possessed of a complete system of circulating fluids similar to what is found in larger animale, we seem to approach to an idea of the infinite divisibility of matter.
It has been calculated, that a particle of the blood of ove of these anamalcule is as much smaller than a globe onetenth of an inch in diameter, as that globe is smaller than the whole earth; Devertheless, if these particles be compared with the particles of light, it is probable they would be fonnd to exceed them in bulk as mnch as mountains do grains of sadd. Many other instances of the extreme divisibility of matter, might be enumerated but these are sufficient to show into what very minute parts matter is capable of being divided.

We shall sead copies of the present issue of the "Press" to many of the old subscribers to the "Califarnia Miming Journal," formerly publishtd in Grass Valley, Nevada Coun.ty. We should be pleased to add the names of such of our old friends and former readers of the Mining Journal, as may choose to aid us in our present undertaking. The "Mrning Journaland Scientific Press" will be published every Saturday morning at $\$ 4$ per annum, at No. 24, Fuderal building. San Francisco, and being the only mining paper in the State we trust the friends of mining enterprise, and all who wonld keep thoroughly posted with regard to the great leading interest of the State, will send in their orders for the Press: The paper has now become permanently established, having already entered upon the fourth year of its existence.

The Herald of this city, of a recent date, chronicles as a notable circumstance, the fact that not a single mining company was incorporated on the day previous.

Treatimg Iron I'ybires.-An invention has recently been patented by Mr. Juhn Longmaid, of Scotland, for treuting iron pyrites and other ores containing copper, silver, and tin, or either of them, and sulphur, which consists in frst crushing the ore and passing it through a sieve having about 100 hules in the square iach, and afterwards calcining it and treating with common salt. The invention appears to be a modification of or improvements upon, the inventions of Mr. William Lougmaid, patented 1842,1844, and 1845. According to the new invention the partially culcived pyrites and salt are kept at a low red heat, until decomposition converts them into sulphate of soda and soluble chlorides of the inetals. These are washed out and precipitated with iron in the usual manner.

A Nem Application or Stease-A novel experiment is announcarl as soon to be tried by a steam fishing $v$ essel lately fitted up at Leith. Her trawling gear, which is very heavy, is to be wound up by a capstan driven by steam power, and all living fish thus taken will be put into a well, or salt water aquarium, having a constant circulation of water through it, and thus the fish will be kept in existence until brought to market. This is suid to be the first direct application of the steam engine to the purpose of catching fish.

Srlver Bricks.-The citizens of Virginia City, propose to send to the Sanitary Coinmission, the sum of $\$ 20,000$ in silver bricks. The Enterprise says : The shipment will be made in solid silver bricks, stamped wi $h$ an appropriate inscription, and will prove the biggest ad vertisement for Novada Territory that ingeuious brains have yet conceived.Chese sillver bricks will be curiously examined and commented on by many a man in New York who would forget in fifteen muntes after he heard it, the fact that $\$ 20,000$ in gold coin or Treasury notes had been sent from the unknown land of Nevada.

North Pactfic Review.-We have received from Messcrs A. Roman \& Co., Montgomery Street, the first and sec. ond numbers of the North Pacific Review, published in this city, and find them well filled with interesting matter, both original and selected. Each number is illustrated with an engraving, those in the numbers before us being portraits of the late James Donahue and the late Col. Doane-the latter of which is a remarkably striking likeness. The contents are varied to suit all tastes, from the lively, sparkling sketch, to the more sober paper on mining, scientific, or agricultural matters. A well written chapter of notices of new publications, being also one of the features. Judging from the numbers before us, the North Pucific bids fa ir to take a permanent place, as a first class literary monthly.

The Californa Iron Ceiad.-The iron clad steamer for the defence of this harbor and coast, is rapidly approaching a coropletion. She is to be called the "Comanche," and will be a beautiful specimen of navel architecture-The NewYork correspondent of the Marysville Appeal states that when all is finished she will be put together, tried, and if everything works rightly, she will then be taken to pieces and shipped to California. She will difier in several particulars from most of the other Monilors ; but all visitors are requested not to make public her important features. Her length is 250 feet, bredth and denth proportionate, and she is to be coated with iron of immense strength, and great thickuess ; and, in view of the precions national treasures she is to guard, she will carry a terrible armament.
"Old Virginia" vs. Opair--The Territorial Enterprise of Octuber 31st, in its "Stock Remarks" says :-
The "Old Virginia" bubble seems to have exploded; at least, there is little or no demand for Virginia. It has been offered to-day at a comparative low figure, with no takers.

Tee connection of the present editor with th's paper having been consummated somewhat hastily and unexpedly, he will be under the necessity of begging the indulgence of the patrons of the paper for a delay of one week in the next is-sue-a delay unavoidable to allow him time to visit his late mountain home and make the necessary arrangements for a permanent removal to this city. The next issue will therefore be made on Saturday, November 15th.

## WASHOE ITEMS .

Tife Gocsd and Cury Mili.-'The Enterprise says that a large number of workmen are engaged upon this great work. A huge ore-house has been erected near the mill, and two or three immense walls are being constracted of cut stone for the protection of a terraced road-way and a large yard. A village of fifteen or twenty neat frame houses hus sprung up about the mills, and everything in the neighborhood tells of an industrious and prosperous community. Ore from the Gould and Curry mine is now being crushed at the Hoosier State mill.
The Danfy Mrli, is a large first class mill, and fast approaching completion. We learn from the Enterprise that the mill contains fifteen stamps, twelve iron-bottomed amalgamating tubs, and three large "treating-tubs." The latter are to be placed near the batt ries and will be used for mixing the chemicals used with the pulverise d ores. The floor of the room containing the batteries and treating-tnbs is several feet higher thau the amalga mating room, thus greatly facilitating the distribution of the pulp thro ughout the building and saving much labor in the various departments.
The Company has a large amount of wood piled up near the mill, and will be enabled to "fire up" the moment their mill is completed. Many improvements are being made in the mine. A very rich vein has lately been struck in the lead, which consists of a species of brown, compact earth or decomposed rock, which is literally full of bright, glistening gold. This seam or streuk, as far as opened, varies from two inches to a foot in width-the entire lead being about fifteen feet in width.

The castern extension of this mine is known as the Caney lead, and has been traced for a considerable distance. On the west extension is the Governor Nye Co., who are now cutting through what is supposed to be the wall-rock of the same lead into a reddish, decomposed earth which yields very fair prospects in gold.
We clip the following items from the Territorial EnterBuilding Lots.-Hundreds of building lots have lately been staked off east of town by speculative peg-drivers. We shouldn't wonder if there was money in those lots. This city would not stop growing should it try. 1t's bound to go ahead, and must have some place to spread.
Brevoort's Mills.-Ool. Brevoort's new mill is rapidly advancing towards completion. A commodious gallery has lately been built, connecting it with the old mill.
Trenca's Mrul-Additional batteries are being erected at this mill, and there will be a considerable increase in its capacity for amalgamation.
A New Mill.-The foundation for a very large new mill, to be called the "Rhode Island," is being built on Gold Canon, a short distance below Gold Hill.
The New Succor Mill.-This on Gold Canon, near the Succor mine, is in full blast. It is a very little affair, and conveniently arranged.
Gold Canon Reductron Works.-Some addition has lately been made to the amalgamating machinery of the Gold Canon Reduction Works. 'Ihis consists in seven new five foot pans with Wakely, or rather improved Wakely, mullers. The new machinery was started jesterday morning.
The Hooster State Mill.-This new mill works as smoothly and correctly as a well regulated watch, and is one of the neatest and most substantial institutions in the district. It is crushing the Gould \& Curry rock at present.

Tar Spring.-The Territorial Enterprase mentions the discovery of a tar spring-petroleum probably-which is located between Mud and Pyramid lakes. This spring emits athick, bituminous fluid; the discharge being quite hot where it bubbles out of the earth. According to the Enterprise, the Iudians frequent the tar spring for the purpose of pitching their baskets and willow water vessels.
Virginta City Potterx.-The Territorial Enterprise of the 31st ult. says:-"A kiln of fine glazed ware is ready for drawing at this establishment. The proprietors find no difficulty in disposing of their ware.

## The next Mining "Sensation."

Late Victora papers, received at this city, are filled with glowing accounts of extraordinary gold yields from the placers of Fraser river, Cariboo, Similkameen, etc. The Colonist published in that city says that the late arrivals of gold from those places "puts to blush the croakers who have come here and left," and asserts in the very face of the ragged and starving thousands that are fleeing from those localities that "there will be good diggings there for the next teu or twenty years; and that it will take five years to get theru opened." Still, as if doubting the posibility of again inducing a crowd of adventurers to visit aud leave their money, if not their bones, in those same localities, that paper has the presumption to announce "new and important discoveries," still further north, beyond the Fraser and over the divide, along the waters of Peace river, which find their outlet in the Arctic Ocean! "There," says the Coionist, "we are met by a new II Dorado, where the miner can render muddy by his industry, waters that fall into the Arctic Ocean." Further on, in the same article, we find the following significant parugraph :-
"We really claim to have a greater extent of gold-bearing country than any other country in the wirld. [! ]
With our small population we are doing wonders in discov-
ering it. [No doubta] What we want from abred ering it. [No doubta], What we want from abroad are with the "blues" and hardships of a rugged country-rugged above the average. We want for next year, mules, packhorses, freight.wagons, stage-coaches, steamboats, expressmen, mail-carriers in all directions, coasters, seamen, and merchants. The more we get of these classes-not forget-
ting the farmer-the better. [No doubt of it.] Here is the ting the farmer-the better. [No doubt of it.] Here is the
field for speculation, enterprise. We assert it, we know it, are sure of it, have not a doubt about it, that our Pacific T'erritory is a rich one in gold." [!!!]

Other columns of the Colonist are filled with details of "rich strikes', and "extraordinary yields," from which the uninitiated might be led to suppose all one had to do was to go to the mines and scrape np gold by the handful ! Who does not see in these paragraphs the most unmistakeable evidence of the ground work of another mining "sensa uion" for the coming season?

Whatever may be the ultimate value of British Columbia as a mining region, certain it is that, notwithstanding the vast pretentions of the Colonist. and other journals in like interest, (some of which may be found in this state,) we have, as yet, no reliable evidence upon which to base the propriety of any exteusive mining emigration to that quarter. Still as it seems to be a sine quanon with California, that she must have her periodical mining excitements, we trust, if such things are to be, the speculators will hereafter select for theirfield of operations, some locality within the confines of our own state, so that those who are bent upon going upon a fool's errand may be kept within easy reach of their friends, and be induced to spend their money for the benefit of their own countrymen.
It is now upwards of four years since a base and nefarious set of swindlars, made up of steamboat and ship owuers, and land pirates of every specie and class that can thrive by such excitements have been annually enticing thousands upon thousands of miners from California, and people from other parts of the world to try their fortunes among the placers of British Columbia. After each year of failure they hove been told that the new El Dorado was certainly to be found ooly a little farther beyond the point visited the previous year-that they were sure to strike it, if they per severed, and return, every one with a "pile," if they would "only go a little farther North or East this year!"
Each fall the roads from these regions have been thronged with these same thousands, returning from their explorations, disgusted and discouraged, and, in a majority of cases with nothing but rags to cover their nakedness and scarcely a dollar to provide that sustenance which is doled out to them by these same speculators, at enormous prices. Huadreds we are told, have put a violent end to their existence, or sat themselves down to die after their last possible effort to escape from this modern Golgotha. These are facts-not fancies-as may be almost daily brought to the knowledge of every person residingin any of the principal commercial or mining centres of the State, who will take the least pains to enquire into them. The present is no exception to the rule, but has been quite as disastrous as any season which preceeded it. And yet the journal already alluded to, as
published in the chief city of that region, has the effrontery to jeer at the great array of sufferers hastening home from that inhospitable country, ere the rigors of a northern winter deprive them of the last hope of ever again reaching the bounds of civilization-it denounces them as 'croakers' etc.!
The press throughout this state has, year after year, given timely cautions against these delusions, and pointed to the well attested facts that such reports are all got up for spee ulative purposes, baving, it may be, some few data from which to work; but showing that they were, in the main, baseless as the fabric of a dream. We trust that now, at least, the days of humbuggery and excitement, in this peculiar channel, at least, have gone by and that our miners will hereafter conclude to let well enough alone, and adhere to the good old adage that "a bird in the hand is worth two in the bush." Let them pay no farther attention to the of repeated tale of rich and richer mines far and still farther north. Tet them endeavor to settle downinto the reasonable conclusion that the extraordinary, stories of rich diggins now coming in from the distant Peace river mountains, are but rep etitions of the "same old story,", and resolve to settle down quietly, even if they do not earn more than $\$ 21 / 2$ or $\$ 3$ per day, since, in the end, they will even at that, with economy and industry, amass a competence for old age.

Henness Pass_Road.-A new line of stages has recently been put on between Grass Valley and Virginia City, connecting with the California Co's coaches at the former place The first trip over this road was made in 17 hours 40 min ates, traveling time. Travelers will find this decidedly the best route of travel to Virginia City. Arrangements have been made by the Stage Company and the people living along the route to keep the road open through the winter, and in good condition for teaming. This can easily be done, if entered upon with a will, and would be of vast benefit to both California and Nevada Territory.

A Wise Move.-The wine growers of Anaheim have joined in an association called the United Wine growers of Anaheim, the purpose of whioh is to establish a depot in San Francisco, where their wine can be obtained in abundance and purity.

Recent Patents-Granted to California Inventors througla the Pacific Agency, J. Sietersmith, Solicitor:
E. E. Matteson, Nevada: Hydraulic Derrich. This invention has been illustrated in this journal, and has obtained great celebrity throughout the State.
Elander Heata, San Francisco, Spiral Spice and Sage Mill. See "Mining and Scientific Press," June 9th, 1962, Vol. V., No. XIII.
G. F. Deetken, formerly of Nevada: Apparatus for separating Gold from Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation. Mr. D. has recently established himself in this County, on the San Bruno Road, rear the Islais Creek, where he has erected chemical and metallurgical works.


The German Bar Ledge--This famous ledge which was takeu up during the great excirement of 1851-2 and of the yield of which most astonishing reports were circulated, seems to have quite passed out of mind of late years, but has now been again brought before the public-as rich as ever. The Nevada Democral gives the following in relation to it :-
A Rtoh Srrike.-We learn that a rich quartz strike has lately been made in a ledge on the north side of the Middle Yuba near German Bar. The ledge is known as the "Copper Hill Lead," and is owned principally by Mr. George Fellows, who has beeu working it most of the time since 1851 . It was taken up during the quartz excitement of that year by a party of miners. of which Mr. Fellows was one, and the company, fortunately striking a rich pocket, took out from $\$ 150,000$ to 160,000 . Having worked out the pocket, it was found that the rock in other places would not pay, and the partners, one afier another, sold out or threw up their interests and returned to the Eastern States. Mr. Fellows, however, stuck by the ledge, and has been working it more or less ever since. He erected a mill some years ago, known as the "German Bar Mill," which was carried off by the flood of last winter. The rock, however, hardly paid for the expeuse of working, but he continued on, in hopes of striking another pocket, and his perseverance bas at length been rewayded.The workmen came upon another rich place a month or six wreeks ago, and have since been taking out gold by the wholesale. We cannot learn how much has been taken out, as Mr Fellows keeps thse matter to himself. He went below at the State Fair with $\$ 10,000$, which had been taken out within a week or two previous; since then the lead has been getting richer, and up to the present time there arenn indications of the pockets giving out. One gentleman, who visited the ledge a few days ago, and who has some means of judging, informs us they must have taken out nearly $\$ 100,000$ in the past month. Others place the amount at from $\$ 50,000$ to $\$ 100$,mont
000 .

A New Ciry.-It appears from the subjoined letter from the Morning Call of Monday, that a new city has recently been laid out on the west bank of the San Joaquin, at the point of its confluence with the Sacramento. It seems that the site possesses advantages, which will doubtless soon become known. it has already arrived at sufficient importance to call for the stopping there of the Sacramento Steamers fur way freight and passengers. We give the letter-

Collingsville, Oct. 25, 1862.
Editors Mornina Call :- You will receive this fiom our new city at the mouth of the Sacramente and San Joaquin rivers twenty miles (abont equal distances) from Suisun and Rio Vista, and opposite the towns of New York and Antioch. We have a fine wharf and store-house now bailt, and a good hotel. We are making a fine road from the wharf. Parties are about putting on a ferry boat to run to Antioch. The distance then will be only 35 miles to San Francisco, saving a distance of over one hundred miles, going by land and driving stock. A number of gentlemen from your city are now laying out our place in town lots, and we hope soon to have a post office, application having been made. The Sacramento steamers stop every other day-Saturday, Monday, Wednesday and Friday, going up; I'uesday, Thursday and Saturday, coming down. If you or any of your friends would like a few day's gunning, there is no other place in this State where game is so plenty. One of our gunners this week killed 164 geese in three shots. Our ponds are full of mallard and other ducks ; our tules full ot winter
snipe and larks. snipe and larks.

Preventing Incrustation of Steam-Boilers-Novel Application of Peat - The advantage of employing pure water in steam-boilers is too well known to require comment; and the processes by which it has been sought to remove impurities have been very numerous. Mr. John Cameron, of the Hematite lron-works, Hindpool, now proposes an extremely simple method of causing vegetable acids to act upon the impurities which have usually to be contended with. He forms a tank with two divisions, that may hold from $50,-$ 000 to 60,000 gallons of water; one division being on a lower level than the other, so that the contents of the upper division may be emptied into the lower. The upper tank is filled with water, and about 30 tons of peat is added to each 25,000 gallons of water ; the peat is put in part dry and part wet, and is occasionally stirred, that every part of the water may be acted upon. It is then left at rest, and the organic compounds (humin, ulmin, humid acid, ulmic acid, crenic acid, and apocrenic acid) existing in the peat precipitate the earthy matters contained. The purified water may then be drawn off into the lowfr tank, and the upper tank refilled.-London Mining Journal.

Batiles-During the Revolutionary war, there were fought thirty-six battles ; doring the war of 1812, eighteen ; during the Mexican war, twelve ; and in the present war thus far, fifty-three.

PACIFIC MAIL STEAMSEIP COMPANY'S Ine to PANAMA FOR PANAMA,


12-tiolldiN ABE, F. If Baby, L'ommabder.
21nt-sinull $A$ - Cotamander.
Fill leavo Folsom strees Wharf, wihh Pussengers and Treasure, for Punama AT O O'Cluck, A. M., PUNCTUALI, $X$,
Aud comnect, via Papuma Fulirosed, at Aspiswall, wheth steamships for \$. York For frulght or pussage, afply to

FORBES \& BABCOOK, Agents,
Je4
Corner of Eacrameuto and Leldesdurf ste.

## RE-OPENINGOF

THE NICARAGUA ROUTE:

## People's Line, CONNECTING CALIFORITI and NEW YORK.

700 Miles shorter than any other route!!
ETPECTED TO MAKE THE TRIP THROUGH WITHIN 21 DAYS.
The fast and favorite Double Engine Stecmsship

## MOSES TAYLOR, 1,600 tons,

E. HOWES . ............................ Commander.

Will be dispratched for
$S A N J U A N D E L S U R$, From Mission street Wharf,
Punctually at 9 o celuck A. M., of
MONDAY, . ........... DECEMBER 1st.
Connecting with the splendid Steamship
AMERICA,
2,000 Tons................JEFF. MAURY, Commander.
THEPEOPLE'SLINE
Has been established on this
Shortest, safest and Healthiest Route,

## OPPOSITION,

And overy Californian should give it a preforence for the public good, a Reduced Fare, Good Accommodations, and Quick
Trips, Thi line is intended to be a permanency, and is not nut on for the purpose
of bing bought or driven off. Speed, safely and the utmont cmanfort of yas or Deing tought or driven of. Speed, safely and the utmant cenfurt of pas
 Tight Compartments, ,
oe7. RUSS, DEMP'TLR \& CO, Agents,

## LABOR-SAVING <br> Rock Drilling Machines.

 Till

## HAND, HORSE, AND

## STEAM-POWER MACHINES.

The Hand Machines ara expresely adanted for worhing in Tunnels, Galle-
ries, etc, noo man performing the tals of itree in the ordivary way. ries, etc, noo mana performang the Tiaty of three in the ordiuary way.

 beiug limited only by the durability of the stee! dml.
Satisfuctory refereuce will be givon as to the
Satisfuctory referouce will be givon as to the practical working of the
machiue, and its entire success in reducing the !nsi of drilling holce to onemachlue, and its entiro success in reducing the inst of drilling holcg to one-
tanth of the former expense, and on a rock oxcavation of uny extent, from Afty to seventr-ifo per cent. on the euthro work, Rosponsibly partiee who
have rock excavations to make in any part of the State, the subseriber will
 least twonty-live per cent. over any othor process. WM. W. DUNN,
Adrtess ofdera to
$\begin{aligned} & \text { Aldress ordera to } \\ & \text { oc7-8m] }\end{aligned}$ Fremont atreet, bet. Market and Milission, Sin Francisco,
F. G. BEPLER,

## PRACTICAL COPPERSMITH,

No. 118 (Old No. 22) Eash gtreot, Between Sansome and Battery,
Whllst thankful for the former confidence bestowed upou me, I desire to
suy that I am ready to make and repair with sny that I am ready to make and repair with cheaponess aud dispatco evory
thing in my line of business; especially all kinds of apparatus used in eriea and Litiullorfor ; alsa. all such us are used where steam, spirits, or
pumps of any kiud be requiren. Also, Kitchen utensils for Hotels, Restaupumps of any kiud be requiren. Also, Kitchse utensils for Hotels, Restau-
rants and private houses. Baking apparatus for Bakers and Confectiovers, as well as all other kiads of copper work
All orders from the country promptly ationded to

## A. ROMAN \& CO.

WHOLESAIE AND RETAIL
BOOK ESTABLISHMENT.
417 and 410 Montgomery stroct, SAN FRANCISCO.

## 4. Ordera rexpectfully solfcited and promptly attender to.

- Treatise on Metallurgy, Comprising Mibing and General and Pertleular

Motallurgical Operutions, Etc. Etc. By Fredopick Overnina.
A Manwul of Mletallurgy, or A Practical Treatisgon the Chemistry of Motals.
Hanual of Motallurgy, more particularly of thy precious metals; but includ
ing such others as are employed is dentay practice.
ecords of Mining and Metallurgy, or Fact Mod Memornadn for the Uso of the Mine Agent nou Smoltor. By Jamps Phillips and John Darliagton,
Piggot on the Chemistry and Mining of Copper.
Practical Mineral Asraying aud Miafing. Overman.
Gold bining and Assny ing; by Phips.
Miners' Companion and Guide, compited by Silversmitt.
Assayers' Guide; or Practical dircetlous to Assayers, Miners and Smelters.
Practical Assaylig, by Michell.
Ilver Ores and Slyer Mines, by Pro. Blake.
Ure's Dictionary of Arts, Manutactures and Mines.
Weisbach's Mechanica of Machinery and Eugineering.
Nevillo's Hyarnulic Formula Tables.
Fresenius' Chenical Aualysis,
Together with many other worlss in this \&similarlines
20. Books imported to order on sbort notice. 飞ax

## A. ROMAN \& CO.,

$417 \& 419$ Moutcomerv Streat.
Gird's BUDDING KNIFE
$T$ he attention of farmers, hoirticulturists and cutlers, or ention. For description and engraving bee Mining and Scientific Press No. 24, vol. v.
State, Terrritory and worksliop righta for snle at reasonable prices.
Adjress,
sepl-3m
sepl-3m
San Francisco.

## Sur ßeadtung fiur Erfinder.

Erfinber, meldife nidit mit ber englifalen Spradife befunut fiine, fönten ifye Mittheilungen in ber beutidjen Sprade madela
Slizạn won Erfintungen mit furzen, beutlidif gefibriebenen Befarcibumgen beliebe man gu abbreffiren an.

Juc. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter, SAN FRANCISCO

PIANOS, SHEET MUSIC THALLAN STRINGS

INSTRUMENTS OF ALL KINDS, \&ic., \&o.
$\qquad$
A. A. GALE \& CO., New York;
T. GILBELTT, Boston;
C. MEYER, Philadelphia.

Whose Pianos they have always on hand, for sale and to reat.

## planos for rent.

New Musio received by every steamer. New Music published. Music assorted and bound in the best slyle. A liberal discount made to the trade and professors of music.

## v. SQUARZA'S

## PUNCH FACTORY.

$\mathrm{W}^{\mathrm{E}}$ the genent herman who heads this artiele. AND SRade mark of the gentleman who heads this artiele. Mr. Squarza is favorably know in this State for his Anti-Divorce Liquere and similar productions, as
mauufactured by him. We may mentiou that arr. Squarza is au falt in the mauufactured by him. We may mentiou that Mr. Squarza is au falt in the
chemico-ditilling science, hence the celebrity of his articles. Ho has two establishments for the sale of his famquis Punch mone on Leidesdorff, the other on Montgomery street-whicla are constantly thronged with our bon vivants.
The following is a list of his liquong all of which we have tasted, and find
them the most delicious and barmless beverages in this city, being pure, and unadulterated with drugs or other injurious chemicals:
Rum Punch,
Cognuac do.
Arac do.
dol
Cognac $\begin{aligned} & \text { do. } \\ & \text { Arac } \\ & \text { do. } \\ & \text { Anti-Divorce }\end{aligned}$
Arac
Anti-Div
Cofiee
Tin
Coniee
TTa
Pineappie
$\left\lvert\, \begin{array}{ll}\text { Strawodry } & \text { Punch, } \\ \text { Whisk } & \text { do. } \\ \text { Kirschwasser } & \text { do. } \\ \text { Cocos } & \text { do. } \\ \text { Mornlag } & \text { Comfort, } \\ \text { Kuemmel } & \end{array}\right.$
Anisette,
Kirschwass
kirsehwasser
Brandy Cocktai
Ant Auti-Dyspectepsia', Bitters,
Appotiser,

## THE EYES! THE EYESI! THE EYES!!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Fruncisco Deaf, Dumb and Blind Asylum.

After a protracted blindness of more than five years, Dr. PARDFE has made himself thoroughly and scientifically acquanted with all diseases of the Eye, and is now practicStates; and as proof of this he substantiates by many cases now in Oalifornia that have been cured by him, after having exhausted the skill of the eminent plysicians and oculists of New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there has been more blindness from bad and improper treatment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painfal than death, and always more terious than the disease. Patients are duily presenting themselves with chronic cases, and on inquiring what had been formerly done, the almost invariable reply is, "I had my eyes burved with cantic or bluestone;" " I was bled and blistered, then cupped two or three times a week-had a blue pill prescribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tightly bandaged - to-avoid the open air and exercise," with fifty other inconsistencies the aggregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but bure them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and following theories the most erroneous, and destructive to the eye. How much more rational and consistent to consult an experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patients under his daily supervision, and, with but very few cases, they have all beeo treated by other physiciuns hefore applying to him-and all to no benefit. Those wno are doublful are permitted to call at Dr. Pardee's office and confer with the many patients who couvene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artificial Eyes on this coast, inserted, having all the movements of the real eye, and that they louk so life-like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-"Cataracts"-or removal of the Lens by absorption or extraction;-" Plerygium," or fleshy membranes growing over the eyes. Artiticial Pupils, \&re.
OFFICE:-Clay street, above the Plaza-opposite Plaza Hotel-old No. 217, up stairs.
aug14.

## JULIUS SILVERSMITH,

COMMISSIONER FOR NEVADA TERRITORY.
OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington sts., Room 23, up stairs.
$\mathbf{W}_{\text {iness }}^{\text {E Felatioas with the above named Territory, a alhare of their patron- }}$ iness relations with the above named Territory, a share of their patrun-
in all malters requirlig the official action of $a$ Commissioner-such as the drawing up of affidavits, acknowledgments, the tuking of Lestimony, etc.

FREDERICK KESMODEL,
Cutler and Surgical Instrument Maker 817 KEARNY STREET,
Botween Jackson and Washington streets,
SAN francisgo,
$\mathrm{R}^{\text {ECEEVED a diploma at the Fair of the freclianices' Institute, Septomber, }}$ R 1858, also in Sacramento in 1861 for California made Cutlery. The atiention of those allicted with HKRNIA, or Ruptare, or any oue intiffercnt cases. It is a well kuown fac fhat there has as yet been no system
dit of Gitting Trusses. There are mauy dirierent styles which have proven good in many cases, but they are all uperitain and cuinot be r lied on, nad in severe cases are altogether useless. The following are some of the advantages y claim for these Trusses a ave any and all others: First-The Pad is
formed oul the parts to be compressed by taking a plaster cast. Secunlformed out the parts to be compressed by taking a plaster cast. Secund-1
Haviug a correct model, it enables me to make the Pud of any desirable material, such as hoorn, ivery, ete. Third-The Pad is so adjusted to the gipring that no movement or the body will movo or displace it. There are many other advantages. Examine and judge for yourselves.
FREDCRICK KESMODEL,

REDLERCK KESMODLL,
Inventor and Pateatee.


## 8

## Onr Mint, its Rules, Charges and Operations.

In the columns of a contemporary we observe some ex ceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857, while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some ${ }^{W} 230,000$ less than the limit, and, in fact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our branch mint. The total expenditures for thee years under Messrs. Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total exponditures fo: four years were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100,000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of up. wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in an equally satis factory manner.

For parting silver from gold when gold
is below $300-1000$ ths. fine. ...............3cts per oz.
" from $300-1000$ ths, to $750-1000$ ths fine. 7 cts " " Defosits Siluer Bullion-Purceases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 , 3cts. per oz. gross weight 301 " 500, 7ets,

Deposits for Fine Bars
\$116-4-11ths cents. per standard ounce, 16 per ct. gross value of silver for making bars; also when gold is contained 16 per et. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery
$\$ 1$ 21cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Derostred for Dollars.
\$1 16-4-11ths. per standard oz. $1 / 2$ per et. gross value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
\$116-4-11ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for making bars.
In regard to the deposits of Washoe silver, the rule will hereafter be, that the value of gold contained in the same will be paid in gold coin, and the value of silver in silver
coin. The value of the silver will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, unless deposited for silver dollars, in which case a charge of $1 / 2$ per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, as most congruous with the physical aspects of the material, but in the warrant it must be marked that so much is to be paid in gold and so much in silver, according to the con tents reported by the assayer. The above rules, and charges were promulgated on Jaly 10th, by Superintendent Robert J. Stevens.
U. S. Branch Mint, Nov. 6th, 1861.

On and after the 15 th inst., a charge varying in accordance and the character of the deposit, from half a cent to three cents per oz, gross, in addition to the general rates, and be imposed on all bullion deposited for coindge or manufacture, which will require toughening or extra refining to render it suitable for mint purposes.

Robt. J. Stevens, Superiatendent.

## READ THIS!

C OAL OLL EXPLOSION.-ON SATURDAY EVENTNG, WHILE MR. BREWone can to nnother, His wife imprutentreet Alyponse in pouring coal oill irom and the uil exploded. Mrs. Brewster's Arims were bady burned, as were
also the hushond's hands. However, ho succeeded in masteriug the dames, aiso the hushand's hands. However, ho succeeded in masteriug the Bames,
aud preventiug worso consequences.--[Eveuing Bulletin, Aug. 4.

THEN THIS!
COMET ILLUMINATING OIL!

## Manufactured expressly for Stanford Bros.

BRAND of KEROSENE
Is warranted free from Camplene, Petroleum, or any other explosive mate
rial, and is the
Best Family Oil in the Market STANFORD BROTHERS,

50 lbs. MARLNE AND FIRE-PROOF PAIVT

 Copper, no worms will ever effect it, and cheaper than any other paint. DIRECTIONS:
For Decks of Sbips, use two parts Mineral Paint, cne part White Lead, mix
with Linseed Oil. Fitb Linseen Oil.
Pait, nix with Coal Tar and apply it bot.
For
For salo by all ship Chanders and Tradesmen, in boses of 50 tbs . each, or
by the Pacific Setallurgical Works.
251 by . Hire-Proof Paint,
When used on Roofs, Buildings, or Fences, it is equal to covering
When used on Roofs, Buildings, or Fences, it is equil to covering them
with a cont of Stone, being perfectis Fire Proor, and copastiog less than any
paiint. HOTISE:-Mix three DIRECTIONS :
Horrse :-Mix three parts Mineral Paint with one part white lead, thin
with Linssed oil : if a lighter color is wanted, mix less paint, more lead.
 will last threo years.
S. C. BRADSBAW, Agt.,
G. T. Forame, Superintendent.

WORKS, North Beach; Office, 318 California st., San francisco

## WRIGHTYS PICKS.

$\qquad$
\& RISDON'S


## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should hear in mind that, as a general rule, any invention which is valuable to the patentee io this country, is worth equally as much in England aod some other foreign countries. Four patents-A mericau, English, French his discovery smong one handred millions of the most intelligent people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained through the Mining and Scientific Press Patent Aaency. Having established agencies at all the principal European seats of Govern ment, we obtain patents in Great Britain, France, Belgium. Prussia, Austria, Spain, ete., with promptaess and dispatch.
Models are not required in any European country, but the atmost care and experience is necessary in the preparation o the specifications and drawingse
When parties intend to tak ont foreign patents, engravings should not be published until the foreign applications
have been made.
Cautron.-It has becone a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against beeding such applieations as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrast
their cases to the care of a competent, reliable agent at home.
While it is true of Most European countries that the gystem of examination is not 80 rigid as that practiced in this country, yet it is vastly important that inventors should bave tbeir papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex
amination; as it is a common practice when a patentee finda amination; as it is a common practice when a patentee finds
a purchuser for bis invention, for the latter to cause such exa purchuser for his invention, for the latter to cause suc
amination to be made before be will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors shonld beware of speculators, whether in the guise of
patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.
A Circular containing forther information, and a synopsis of the Patent Laws of various countries, will be furnished on application to J. Silversmith, Goveroment House, San
Francisco.
Mesers, Miners, Inventors, Agriculturalists, Capitalist and Mecbanics, will find it to their advantage to subseribe for the Mining and Screntific Press-being the only journal of that class published upon this continent. Issued every ad at four dolars per annom. Address, J. SILVERSMITH,

MUSIC! MUSIC!! MUSIC!!!

## A. KOKLER ,

IMPORTER OF EVERY DESCRIPTION OF
Musical Instruments and Musical Merchandise.
Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PLANOS.
$R A N K$ AS THE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KOHLER, Agent for the Pacine Coast.

## Melodeons and Harmoniums, from tee celebrated manofactory of

MASON \& HAMLIN.
Warranted superior to all others.
Send for a calalogue and Price liat.
A. KOKL.ER, Agent.

CORNS AND BUNIONS REMOVED.
DR. BYRON C. K\&NNEDY, practical Chiropodist, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove-alt excresences, such as Corns, Bunions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Olcers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to $12 \mathrm{~A} . \mathrm{m} .$, and 2 to 6 p. m. Having devoted six years of study to this important, bat too much neglected, branch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my speciality for nine years, enables me to operate skil-
fully and successfully. In England, France and Austria the
highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lofty position in the profession.

Voizin is an illustrious example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kennedy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that be is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks tor itself, was written by Dr. W. L. Stevens of the University College of Philadelphia
Dr. Byron C. Kemany : Dear Sir-Learning that you are going to take your departure for Californa, and wishing to inform the citizens of Yhila-
delphia and also the people of the Stnte of California the esteem in which wo hold you, and knowing that nothong is more essential to your success than the encouragement which you may recevve from the people of Phila-
delphia, in the midst of which is the playground of your boyhood, and delphia, in the midst of which is the playground of your boybood, and
knowing that you have devoted years of siudy to this important but too much neglected branch of human knowledge; that you have attained to the
highest rank in your profession, sereral of tho Faculty and other prominent citizens of Pbiladelphia haviog, submited to your manipulation, we can recommend you with confidence to the citizens of San Frsacisco, as one of the most skilful surgeons of the age, and we hope your success may be such as
will repay you for your years of study, aud that you may find a broad feld or your exertio. sin the yew and growing city of the Pacife.



A Journal of minina, agriculture, manufactures, science, art, chemistry, inventions, mic.
VOI. VI. SAN FRANCISCO, SATURDAY, NOVEMBER 29, 1862. NO. 5.

## MINING AND SCIENTIFIC PRESS.

THR ONLY MYNLVG, MECHANICL AND SCLENTEEIC PAPER ON THYS CONTINRNT.

THIRD KEAR: VOLUME VI-NEW SERIESI A now rolumo of this extensively circulated paper commenced Sept. I1,
1802. It in intended that every number shull be roplete with information cotwerthe Mining, Ncientille, Jechnnical and industrial pursuits, together
with several original engravings, of nev fuventions, ctc, prepared exuressly With se wermal original engravings, of new luventions, ctc., prepared expressly
for ita columas.
Thin paper is devoted to the above purposes, together with the interest of simnce, arta, Agreculture and Commerce, and any general information
that may bu of uterest to the reader : and it is the intention of the proprio ior to quare no puas or expense in making it equal in interest and valuable
information to any paper yet published.

## The Mining Interest!

Will find it of great value, as it will contain all the news appertaining to
Niniug, the prices and gales of Siving Stochs, Dew iuveutions of Jachinery Miniug, the prices and sales of Siving Stocks, Dew iuveutions of dachinery aulap ere to
to the jfiner.

## The Inventor !

WIII Gnd it an excellent medium for the purpnse of bringing his invention into totice, of ascertaiuling the progress of iorentiou in this and other
countrics, and niso of receiving any information that nay be neceseary in obtaining bis patent, the proprictor haviog bad great exporience as a Patent Agent, together wit
ain Patents with dixpatch.

## The Mechanic and Manufacturer !

Will be greatly bencitted by its perusal, as each number will contann ser eral original engruvings of new machinos aud ioventinus, together with
large amount of rcading matter appertaining thereto. We are constantly receving the hest scienticic jourbals from all quarters, from which we
ghall coutuue to extract whatever may be of benefit or interest to our shall cont
realers.

To Chemists, Architects, Millworights and Farmers! This Journal will be invaluable. All new discoveries in Chemistry' will be giveln, and al large amount of informatinn of great service to Architects and
Sillwrights will be found in our columns. Tbe Farmers and Planters will nut be neglocted, engravings will be given of agricultural implements, and the farming juterest generally will be amply discunsed.

## Termas.

To mall subseribors :-Four Collars per snnum
Five Coples for Six Months. $\$ 8$.
Teu Copies for Twelve Months, $\$ 30$
Fifteen Copies for Twelve Monthe, 844.
Twonty Copies for Twelve Months, \$56.
For all clubs of Twenty and over, the yearly subscrintion is only $\$ 280$ Names cau be sent in at differcnt times and from diffrent Post-offices
Specimeu copics will be gent gratis to any part of the country. W, B. EWER, Publisher
Room 24, (formerly) U. S. Court Building, Corner of Washingten and Bat-

## Regarding Patents.

We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Our arrangements are such that we can have all the papers prepared, transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter iuto our hands; thus saving at least three months delay.

The expense to the applicant would be rather less, if the business be done by us, than if the papers were sent to New York or Washington.

Thus by patronizing a home institution, our inventive citizens can save both time and money.

We have proinpt, intelligent and reliable agents in the city of Washington who attend punctually to all Patent business sent to them. We have agents, also, at London, Paris, Brussels, Hamburg, St. Petersburg, Berlin, Vienna and other European capitals.


## SCIENTIFIC CORRESPONDENCE.

The following ably written article is taken from the Washoe Times. T. B. Truckee is evidently well versed in geology and metallurgy, hence his interesting recital :
Mr. Editor-Dear Sir: Will you kindly admit a few remarks upon the subject of minerals and metals, into your valuable journal, which may not be unacceptable to your numerous readers?
The greatest matter of importance to this Territory, is the mineral wealth which lies buried in all its mountains, and the vast varieties in which it is found. It may be safely stated that this country possesses, in large measures, all the valuable known minerals; and, in a few years, this will become one of the most, if not the most, important region of the commercial world.
The question, in fact, is not, With what mineral does this country abound? but, really, What are the minerals which are not found in the vast mountains which form the eastern escarpment of the Sierra Nevada?
We find gold, silver, conper, iron, zine, mercury, antimony, bismuth, lead, arsenic, platinum, cobal, coal, \&c, in every variety of matrices ; all of which will, in due course of time be developed and worked. Tlin ore may be said to be the onty valuable mineral not yet found, but it may, nevertheless, be present as black tin, near some of
the lodes where copper has been obtained; although the lodes where copper has been obtained; although most of the copper ores, yet discorered, are associated with
gold and silver.
The metal to which the attention of the present popula
ion of this country is mostly directed is silver ; and the tion of this country is mostly directed is silver; and the
many and varied forms in which this mineral is to be found. many and varied forms in which this mineral is to be found importance to the commercial community of this part of the new world.
The mineral of silver has no less than trenty-six known varieties, viz: 1st, Native massive silver ; 2 2nd native nee-
dle silver; 3d, auriferous native silver ; 4th, antimonial silver ; 5th arsenical-antimonial silver ; 6th, telluric silver ; 7th, sulphuret of silver ; 8th, black sulpharet of silver; 9 th, fexible sulphuret of silver ; 10th and 11th, dark and light red silver blend; 12th compact silver glance, or vitrious sil ver; I3th, earthy silver gance; 14th, rhomboidal silve glance ; 15 th, white silver; 16 th, gray carbonate of silver 17 th, bismuthic silver ; 18th, maizyrite ; 19th, stromeyerite 20th, seleniuret of silver; 21st, eukarite ; 22d, iodide of silver ; 23d, carbonite of silver; 24th muriate of slver; 25 th, chloride of silver, and 26 th, butter-milk silver.

These varieties have their respective associated minerals, which may be placed as follows: Alumina, antimony, arse nic, barytes, calcium, cinnabar, cobalt, copper, gold, iron lead, mica, selenium, silica, sulphur; and tellurium.

Most of the silver ores of this country are very strongly impregnated with sulphur and arsenic, which substances render the obtaining the precious metal both difficult and precarious.
It has been the study of some years to endeavor to form some general principle by which the ores of the precious metals could be worked; bat to the present time it has proved wholly impracticable, as the features of every new mine differ, in some respect, from its neighboriag deposit and, therefore, little quack medicines, which are said to cure
all disorders, and are found to be failures in most, so in this instance, except the matrix be treated according to its constitution, a good and perfect result camot be obtained. In order to procure the finer and more precious metals, it requires that the impure qualities of the matrix should be either neutralized or expelled; and, in fact, the material treated according to its annalyzed constitution, without which it is quite impossible but that a very serious loss must always take place. This is tacitly acknowledged in all the works for the reduction of ores of this country, by the fact that every mill reserves its tailings for some future working.
It would occupy too much of your valuable space to, at present, enter further into this subject, but I will, with your polite permission, do so on some future occasion.

## I am, Dear Sir,

## Yours, faithfully, J. B. TRUCKEE.

Mairing Icfa by Macimeray.-The following is an account given in the World of a patent improved ice-making machive, manufactured by D. Siebe, Lambeth, London. This machine is in actual nse in India and Peru, where it produces ice at the rate at from two and a half to six dollars per ton.-The principle upon which the machine is constructed is an application of the well-known natnral law, that by evaporating fluids the caloric contained therein passes off with the vapor, thereby reducing the temperature of the evaporating body. In this process a volatile fluid steam is used as an evaporating arent; a powerful pump forms a vacuum, and in its efforrs to do so assists the evaporation at a low temperature on the one hand, and by prssure, with the assistance of water at an ordinary temperature, reduces the vapor again to fluid on the other hand, thereby using and re-using the same volatile fluid without loss. No chemicals of any kind are used, unless ether, benzol.4. \&c., are chemicals. Te talk about making ice in the United States may at first sight seem absurd. I am not so sure that it is so in all localities and under every condition of things. But there is a purpose to which this ice-making machinery is applied which may be deserving of attention in the United States.It is proposed to cool hospitals by this machinery on the converse principle by which buildings are warmed. It has been proved by experiment that this is practicable, the inside temperature of a chamber having been reduced to within six degrees of the freezing point, while the thermometer outside raged at $90^{\circ}$. Fehrenheit. In the progress of the war something of this sort may be very desirable. The machinery for making a ton of ice at a time might be carried on a large waggon.
Tron Formed by Animalcules.-The Journal de l'Instruction Publique contains a curious article by M. Oscar de Watterville, in which he announces the fact, not generalIs known, that in the lakes of Sweden there are vast layers or banks of iron, exclusively built by animalcules, not unike those that bave laid the fondations of large islands in the ocean, by silently and for ages cementing matter with matter, so as to create those beautiful forms known as ma-dre-poræ, mille-pore, corals, \&c. The iron thus fopnd is called in Sweeden "lake ore," distinguished, according to its form, into gunpowder, pearl, money, or cake ore. These irn banks are from 10 to 200 metres in length, from 5 to 15 broad, and from a fourth to three-fourths of a metre and more in thickness. In winter the Swedish peasant, who has but little to do in that season, makes holes in the ice of a lake, and with a long pole probes the bottom, until he has found an iron bank. An irou sieve is then let down, and with a sort of ladle, conveniently fashizned for the purpose, the loose cre is shoveled into the sieve, which is thep hoisted up again. The ore thus extracted is of course mixed with a
quantity of sand and other extraneous matter, which is got rid of by washing it in a cradle like that used by gold diggers. A man may get out a ton of iron ore a day by this process.

## IVORY.

The immense demand for eleplants teeth has of late gears increased its supply from all parts of Africa. At the end of the last century the annual average importation into England was only 192,600 lbs.; in 1827 it reached 364,784 least 3,040 male elephants. It is probable that the slaughleast is much greater, for thie teeth of the female elephants are very small, and Burche'l tells us, in his African travels that he met with some elephant hunters who had shot twelve huge fellows, which, however, altogether produced no more than two hundred pounds of ivory. To produce 1,000 ,000 lbs of jvory, the present annual English import, we should require (estimating ench tusk at 60 lbs .) the life of 8,333 male elephants. It is sald that 4,000 tuskers suffer death every year to supply the
A tusk weighing 70 lbs . and upward is considered by dealers as first-class. Cuvier formed a table of the mostremarkable tusks of which any account had been given. The largest on record was one which was cold at Amsterdam, which werghed three hundred and fifty pounds; in the late sules in London the largest of the "Bombay and Zanzioar"
was 122 lbs. of "Angola and Lisbon" 69 lbs ; of "Cape of Good Hope and Natal" 106 lbs .; if Cape Coast Castle, Lagos," etc., 114 lbs.; of "Gaboon" 91 lbs ; "Egyptian" 114. But it mast not be inferred from this that large tusks are now rare. On the cuntrary, it is probable that more long and century. A shoit time ago Julius Pratt \& Co. cut up at their establishment at Mer den, Ct., a tusk that was nine and a half feet long, eight inches in diameter, and which weighed nearly eight hundred lbs. The same frm in 1851 sent to the "World's Fair." London, the widest, Ginest, and largest piece of ivory ever sawed out. By wonderful ma-
chinery, invented in their own factory, they sawed out (and the process of sawing did the work of polishing at the same time,, a strip of ivury forty-one feet long and twelve inches wide. It took the precedence of all the specimens sent in by England, France, or Germaoy, and received rewarding at tention from the Commission.
It may be asked what can be done with such an immense piece of ivory? We reply that the time has come when this and we shall soon doubtless see tables, bureaus, writingdesks, and other members of the furniture family rendered as resplendent as the throne of Solomon. We believe that it is now contemplated by Steinway \& Sons to build a piano the African elephant, but an instrument whose whole surface shall be of burnished virgia ivory. One thing is certain, that any piano-forte manufacturer who should first attempt this will make a sensation by the novelty of the affair, and will donbtless be well rewarded for his labur.
The most costly tusks, or portions of the tusks, are those which are used for billiard balls. What are termed "cut points" of just the right size for billiard-balls, from $23 / 8$ to $35 / 8$ inches in diameter, brought the highest price (£53) per cut of any ivory offered in the London market at the late sales. Billiard-ball making has of late becon
portant item of manufacture in this country.
The teeth from the West coast, with the exception of "Gaboon," are less elastic, and less capable of bleaching, West coast tusks are much used for knife-handles. Since the French have possessed Algelia, France receives a considerable portion of ivory from Central Africa by the large caravans that travel from limbuctoo northward.
Ivory is also furnished by the walrus or sea-horse, and commands a price equal to the best qualities of elephant ivory. It is, however, too hard and non-e astic for many purposes, and has the disadvantage of being too small to cut up profitably.

Slle for fere Mlllion.-Some very encouraging experiments in the cultare of a new kind of silk, called ailanthine have been made in France under the patronage of the Em peror. The worm is an importation from China, where it The food of the worm is the leaves of the ailanthus. a har dy tree that flourishes equally well in the temperate or tor rid zone, and grows on soil worth little for any other pur pose. The silk is not so fine nor glossy as that produced takes most dyes well, and is emphatically a silk for the peo ple. Thus far the silk derived from the ailanthns worm has been what is known as corded silk-a material in great demand among manufacturers-but specimens of Chinese
manafacture show that they must possess some method of reeling off the cocoons. Says an English paper, in speaking of this new kind of silk, "To Henry IV. the country owes the silk of the rich ; to Napoleon III., courteous history Will record, she owes the silk of the people. In 1599, a great king wished to patronize the introduction of a terprise ; at the present epoch it is again a great sovereign who patronizes the introduction of a new silkworm, but it is
ingpossible that a minister could now be found who would repeat the error committed by Sully."

Effect of the Anerican War Upon England.-The loss Which England already sustains by the blockade of the secession ports can hardly be stated at less than a quarter of
million per week, including the cessation of employment and wages for the operatives, and the waste and loss of interest on capital sustained by the employers, in the staple manufacture of Lancashire. The localization of the interrupted industry adds terible weight to the severity of the blow.-
Jwo hundred thousand hands suddenly thrown out o work, in a population of twenty millions, might easily be fed and kept from severe suffering by the care and assistance of their immediate neighbors. But that number depived of their means of subsistence, in the midst of a popalation of
some two millions, all impoverished by the same calamity and most of them actualy dependent on the wages of those who are now unemployed, are in danger of actual starvation Some idea of the state of affairs in the manufacturing districts may be obtained from the report of a deputation sent from Birminghan into the cotton districts to make in quiries. In Manchester, the subscriptions to the general fund amount to $£ 25,000$, and $£ 10,000$ has been given to th Provident Socicty; while Liverpool, which merely imports cotton, and where only 1,000 or 2,000 cottou porters are dependent for a living by removing it from the ships into the warehouses, has already contributed $£ 32,000$. Exceptional cases are, however, uientioned by the Birmingham cieputa tiou. A large mill owner is stated to have lent his work people $£ 3,000$ to "tide uver the evil hour ;" and another has spent $£ 1,000$ in unproductiva labor. The Birmingham dep ntation culculate that the diminution of wages in the distressed districts during the coming winter months will be at least $£ 150,000$ a week, and the same authorities state that, when the distress has reached its hight, it will require adthe population from starving

Copprerng Them.-The Monitors, now in course of construction, have one weak point, notwithstanding the universal faith in their invulnerability Water will do that which hostile shot cannot-it will slowly but surely eat its way through the iron plates which compose the hull sa as to fatal-
ly weaken or destroy them ultimately. A method of copper ly weaken or destroy them ultimately. A method of coppe to afford effectual protection from corrosion. Copper is fused and heated to 1,000 degrees, when the iron plates which are to be coated are plunged into it and kept there until they are nearly at a white heat. Then partial fusion between the two metals takes place, and the plates when withdrawn are the galvanic process which has hitherto been employed.

A Poterfol Ram.-The rebel ram, Fingal, building at Savannah, will soon be completed, and when her iron-plating is finished she will be fully equal in point of strength to the
Merrimac. She was an Euglish iron steamer, and ran the Merrimac. She was an English iron steamer, and ran the stronger than ordinary vessels, being iron-braced in every part. She was built in Greenock, in England. The rebels have cut this vessel down, razeeing her some eight feet. and widening her by the introduction of eight teet of white oak on eilher side, bolted on, and the iron planting is bolted and riveted to this. The whole vessel is roofed over with iron, on the same principle as that evident in the construction of the Merrimac. She is provided with eight hundred horsepower, double oscillating engines, and will be a troullesome customer, if she is ever allowed to get out from Savannah.

What Iron-Clad Ships Have Done.-The Liverpool $P$ ost says:-In a short time, the war continuing, America will have the largest and most effective navy in the world The Government at Washington does not yet feel quite se cure against the chance of European interference. Possibly the alarm of intervention is encouraged to sustain the
military ardor of the nation under present circumstances; for it is dificult to suppose that any sane man could believe for a moment that England would interfere in the present quarvel otherwise than in a friendly spirit. Hereafter there can be no war between an Kuropean Power and the United
States. Iron-clad steamers forbid it.
New Mode of Catching Trolt.-Sevi Bartlett describes in the Country Gentleman some trout ponds on the farm of mode of feeding. Last winter, after the poods had frozen over, he states that a boy was sent to feed the trout with chopped meat. Having cut a hole through the ice and put in the meat, the boylay down with his face near the water
to watch the fish, when a trout grabbed him by the nose, and the boy by a suddenjerk of the head, threw the fish upon the ice. He thus obtained a trout of thres-fourths of a pound weight, but at the expense of a sore nose for three

According to Simon's analysis, healthy blood contains in 1000 parts- Of water. . . . . . . . . . . . . . . . . . . . . . . . . . 797.707

|  | 7.707 |
| :---: | :---: |
| Fat | 2.346 |
| Fibrin. | 2.104 |
| Albumen.. | 76.600 |
| Globulin | 103.022 |
| Hematin | 6.209 |
| Extract | 12.012 |

Sours of Acids.-The sourness of the juice of a lemon and the acidity of vinegar are so well knowu that the mere mention of them is sufficient to convey a knowledge of the chief qualities of sours or acids in their natural state. There are so many acids that two or three pages of an index to a themical book are taken up in enumerating them. Every fruit contains an acid; nearly all the minerals are capable
of forming acids. When coal, wood, paper, rag, charcoal, brimstone. phosphurous, and many other substances are burned acids are produced. 'A flint stone is an acid. There is an acid in our window glass, and in many of the mogt costly precious stones. The air we breathe contains an acid. We create an acid in the lungs by the act of breathing.-
By a very slight change sugar can be converted iuto oxalic By a very slight change sugar can be converted iuto oxalic
acid, which is a strong poison. Sugar by another change, is converted into vinegar. These two illustrations show that a sweet can be converted into a sour; but when sou fruit becomes sweet it proves almost to demonstration that a sour can become a sweet acid
The most powerful acid is that derived from burning sud phur-it is called sulphuric acid, and is one of the mist important articles-of mauufacture. Its acidity is so great that a tea-spoonful is sufficient to make a pailful of water quit sour. Niti ic acid obtained from niter, or saltpetre, is of the next importance in the arts; it is socorrosive that it has long been distinguished by the name of aqua fortis, that is strong water-strong, sure enough for a nodule of iron, lead or silver, dissolves in it like sugar placed in water. From the number of acids which we find in nature, and the ten dency of many artificial substances to become sour, it is evideut that acids and sours are essential to our life and well being. I Acids assume all forms and colors; some are liquids, some gaseous, others solid. The acids of fruits when separated from the grosser particles that accompany"them, are very beautiful and crystilizable substances. By the in genuity of the clemist the sour or unripe apples, grapes tamarinds, lemons, \&c., may be charstilized into beautiful snow-white bodies, which, howerer, when tonchea by the tongue, at once indicate their oi igin by their flavor.

The New Metal Thallum.-This new metal, which was discovered by William Crooks, of London, has lately been described by the discoverer in the Chemical News, and preparations of it have been placed in the Gruat Exhibition.Thallium, in most of its physical properties, resemblis lead It is not so white as silver, but whon freshly cut, it presents a brilliant metallic luster. It is soft, malleable and easily cut with a kuife, and it marks paper when rubled upon it leaving a yellowish streak. It has a great tendency to crys talize, und ingots of it crackle like those of tin when bent To flame it communicates a deep green color ; and in the spectrum, according to the researches of M. M. Bunson and Kirchoff, its single green ray is as sharply defined as the yellow ray of sodiun. Thallium rapidly tarnishes in the open air, and it becomes covered with a thin pellicle of oxide which, like the oxide of tin, preserves the rest of the metal from oxidization. Its oxide is soluble, alkaline in its nature and it has a taste and smell similar to potash. Sulphuric and nitric acids dissolve it under heat, and it burns in chlorine gas heated to $200^{\circ}$ It exists in many of the pyrites that are used in the manufacture of salphuric acid.

Three inventions have appeared lately that will, perhaps, ultimately revolutionize those branches of industry they are designed to effect. One is an engaving machine, which produces on steel designs from surfaces, either flat or in relief, with marvelous fidelity. The second is a spiral trowel, which when attached to a plowshare, cuts a round hole, so that, in a few hours, a permanent drain is formed-the processes of
plowing and draining going on simultaneously. The third is a trifle, but a useful tritle. It is a match which cannot be ignited by any species of friction, nor by fire itself, but only by being rubbed against the box prepared for its reception, which is coated with the flame-giving property.

Manuracture of Shot-The Dubuque shot tower hav ing been purchased and closed up by a St. Lonis house, in order to remove its competition, the citizens of Dubuque became indiguant, and commenced experimenting to mak shot by dropping metal down the deserted lead mine shart, and with the most satisfactory results. They are now going into the business quite strongly, having decided that there is
no necessity for building fifteen thousuod dollar towers, when a hole in the ground, with an expenditure of $\$ 500$, will do as well.

Two Ways of Fiseing.- Rev. Dr. Bellows says that when men go a fi hing for trout they take a light, tapering pole, with a fine silken line attached, and a sharp hook with the line on the water and let it float to the fish, which nibbles, and by a slight twitch is landed safely on the bank.But when men go fishing for souls, they tie a cable to a stick of timber, and an anchor is the hook. On this a great chunk of bait is stuck, and with this ponderous machine grasped in both hands, they walk up and down thrashing the
water, and bellowing at the top of their voice--Bite, or be damutd.

Tap purest metal is produced from the hotest farnace, and the brightest thunder bolt from the darkest storm.

## TO MiNING COMPANIES.

We earnestly solicit from rining companies and associations the fullowiug blank statement, filled according to the data hereby accompanying. The purpose for which we seek this information is important to every citizen and stockholder on thit coast ; it would also be prodnctive of benefiecial results- $i$. o., inducing capitulists to invest in our miniag oporations, thereby infusur new life and vigor into business generally in our States aud Territories, Little, if anything, is known of our metallic wealch in Europe or the Linsterin States, hence we desire as much of the blank filled by you as may be interesting and instructive to the people of this State and those interested abroad.
We knoss of no mining district in Europe or America where this kind of infirmation is not willingly rendered by parties owning property of this nature ; and we know of fu better medium for making public the richness of our mines. We shatl sund blanks to mine and mill proprietors for every quarter, and will gladly publish the contents for the iuformation of the community:

| Tothe ol compuy and nantes of ollleera for tho year. |  | $\left\|\begin{array}{c} \text { Am'l ir stock s value } \\ \text { per share. } \end{array}\right\|$ | When incorporated |
| :---: | :---: | :---: | :---: |
| Lecation. | Averrge nssuys of ore. | Proerss emplayed and number of stamps. | General remarks. |

Routes and Fares riom San Francisco to Forelgn and
Pacific Mail Stermship Company-Steamers leave for New York virt Panama, on the lst, 11th and 21st of each month. 1st cabin, $\$ 250$; 2d cabin, $\$ 200$; 3d cabin or steerage, $\$ 100$.

Nicrragut Sieamship line, Ross, Demñster \& Co., agents. -Steamers leave for New York vin isthmus of Nicaragua, on the 21st Octuber, and semi-monthly thereafter. Price of fare not yet stated.

PALMER, HANSCOMB \& CO;
Golden State Foundry and Machine Works, First Street, ncar Market, San Francisco, Cal.
 R. Mining and nther purposes. Pleuse send Plans and Snecificitions. Having the mose conplete arrangements aud appointments for finishngg
and executing any and anll kuds of Custiogs aud dachisery on this Coast. S:nn Francisco, November 29, 1862

## Attention! Attention!

$\mathrm{A}^{\text {TRACT OF LAND, EMBRACNG AN AREA OF } 400 \text { acriss, Has RECENT- }}$ Bate on reanonable evermans any cuer offred ly the warinus Homestead As.


 thau any other ever ulfored in this murket, and its location 15 such that it
must in the natural progross of improvement soon be in great demand for must in the natural propress of improvement soon bo in great demand for
places af residenice. That this property wwill increaso in value, is as certaio
 other, nnil unimrance ukaiost risk of depreciation iu value is secured oy the sure and rupid increase of our population.
Invest fin Real Es ate
 curreucy.
The pris
holidaysthat is, without intorest. The title to the land is perfect. For further partieulars apply to
HARVEY S. BROWN,

No. 10 ' Naglee's Building.

| Lithograpbi |
| :--- |
| DO 136 mo |

## DEETKEN'S

Chemical and Metallurgical Works, ON SAN BRUNO ROAD, ISLALS CREEK, san fbancisco.

C Lear gold bearing sulphurets worked at sio per ton. from 30 to 0 per ceat highto than the BEST AMALGAMCATION PROCKSS. MgT Apnarutus for separatiog Sulphurets set up by experienced hauds at
a cost of $\$ 50$ to $\$ 100$, if desired by mill ownert. No power nor clean waa cost quired for the purpose.
ter requill

JULIUS SILVERSMIIH,

## COMIMISSIONER FOR NEVADA TERRITORY, OFFICE, IN LATE STATE CAPITOL,

Corner of Battery \& Washington stsi., Room 23, up stairs.
We wodld respectruliy solicit from those who Have bus ge in all maiters requiring the official action of a Compoissioner-Ench as ge in all masters requiring the otbicial action of a Commissioner-such as
ne drawing up of afiidavits, acknowledgmente, the taling of testimony, etc.

## LEANDER RANSOM,

CIVIL ENGINEER AND SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, and the puilic works of the State of California for 7 years.

## also, state locating agent. <br> Aud an such having the sale of

600,000 ACRES OF THE S'TATE SCHOOL LANDS, At the low price of $\mathbf{9 1 , 2 5}$ per Acre.
Then Terms-Twenty-five per cent, in cash, aud tho balauce on a credit of several years.
HfFICE: Necond floor of Express Building, N. E. cornor of Montgmery

A GENCY FOR PATENTS.-The underbigned having been longes A lahinshed in the lateut Agracy Busuess, and having farorable arrangeWdslathen, offer their servicess for the securing of Caveats aud Patents ulso, will atten to the nales of I'atent Rights, and to all matters connected witb patented invea tious.

## WETHERED \& TIFFANY,

 Offee, 410 Montgomery street.CHARLES R. BOND, (Iato City and County Assessor.I REALESTATEAGENT, 410 Montgomery street, San Francisco.
REAL ESTATE PURCHASED AND SOLD, LOANS NEGOTIATED
Washoe Stock Exchange, N. E. cor. Montgomery and Merchant sts., SAN TRANCISCO.
L. W. NEWELL \& CO.,

Buy and sell Washoe, Esmeralda and other Mining Stacks and Securities. вер20

## THEODOR KALLENBERG,

MAKER OF MODELS
for Inventors,

 Stamps.
(No. \& Sansomostreet, corner Market, San ranelsco..)

## DEVOE \& CO.'S

STFAM ENGINE

## MACHINE WORKS,

## Corner Market \& Fremont streets, San Francisco.

A IL RINDS OF MACHINERY, SUCH AS STEAM ENGINES, SAW MILL Irona, Flour Mills, Quartz Mills, ete., etc., made to order and repaired. ALSO,
Blacksmithing, turning, Finishing, PLAiving, AND screw-boli A gricultural Machinery of all hinds mado and repaired.
Whreshing Tecth madc to order, on the mostrest parta of Threshing and Reapines and Fhreshing Tecth marlo to order, on the most reasonable terms. Steam Engines and Bonlers constantly on hand, and for sale heap. Screw-Cuthing Turning Lathes fur sale. DEVOE \& CO.

## LATEST IMPROVEMENT

In LADIES' BUCKLES.
$\mathbf{M}^{\text {R. retchill respctellly announces to the lamies of this }}$ .
 most userul as well as ornament tal trinkets.
Orders from the country respectfully soliciled. For particulars call at or address, FREDERIK REICHEL, Manufacturiog Jeweler, 620 Merchant street, San Fravcisco.

## THE

NEW ENGLAND SEWING MACHINE for \$25!
THIS MACHINE atands confessedly at the head of cverything now befor ty, it has uo rival. It is made with special reference to the wants of a fam ify, and any one with the aid of the priated directinos can learn to work it
surcessfully in a few hours. It will work from leather to the faest cambric successfulty in ane hef needie, tension, or feed. It gives the best salisfaction Wichout the change of needie, tension, or fies. prononnce it better adepted to
where it is sold, and all who une or examine prone
 public. Guage and henmer attached. Every machine warranted, and kept in order free of clarge: This is the only cheap macline that will do all kinds of family sewiag.
rep11
Will,

THE EOLLOWTNG GOODS TO BE FOUND AT
H. D. PIARCE'S:

Gents' Heavy Gold Cases, different patterns ;
Ladies' Heavy Gold Cases, do do ;
Gcld Telescopic Pen and Pencil Case :
Extension Screw, Heavy Silver, for Gents';
Extension Screw, Heavy Silver, for Ladies ;
Silver Extension Cases ;
Silver 'f'elescopic Cases;
Screw, Silver and Ebony Desk Holders ;
Slide Silver and Ebony Desk Hulders ;
Reverse Silver and Ebony Desk Holders;
Pen Holders, Silver and Ehony
Pen Holders, Gold and Ebony
Pen Holders, Gold and Ivory ;
India Rubber Propelling Pen and Pencil Cases;
India Rubber Propelling Pencils, short.
02. All the above gonds are made to order and warrauted; will be sold chetp for eash. There are some thirty different patterns, leaving an opportunfty for partics to select and be suited.
A chenper class of Pens direct from New York, at wholesale ouly.
n2. Gold Peus constantly ou hand. Guld Pous repnired.
au7 II I. D. PEARCE,
606 Montgomery street, betweon Clay and Merchant, up stairs.

## GREAT REDUCTION in prices. <br> STANFORD BROTHERS,

121, 123 and 125 California Street,
KEEP THE LARGEST STOCK OF ALL KINDS
Lamp ${ }^{\text {OF }}$ Stook,
And will Sell Cheaper than any Horse in this Stato. LAMPS, camaneys.

CAMPGENE,
BURNING FLUID,
ALCOHOL,
TURPENTINE
COAL OLL
kerosene ofl
COMET ILLUMINATING OIL.
SPERM ORL,
LARD OLL,
MACH1NERY OKL,
RAPE SEED OIL,
LINSLED Oil, Raw and Botled,
POLAR OIL,
SHARE'S OIL, NEATSFOOT OIL TANNER'S OLL,
sec., sce., so.
Our custnmers in particular, and the country trade gencrally, are requested
o ascortatin vur prices before purchasing from truveling agents, to ascortatin mur prices before purchasing from truveling agents, as we will
apielif
sell at less ralcs than they can afford to.

PHILADELPHIA BREWERY, Second street, corner of Folsom, San Francisco, Cal. Helscher, \& Wieland Proprietors.
Thanlcrul ror past patronage to a discriminnting public, we beg leape
to appricc at the same moment our many friends and patrons that the To apprisc at the same moment our many friends add patrabs that heme above well known brewery has been permanen Cyt. Fonsom where we shall
ges, on second stroct-the former residence of Capt. ges, on second strect-the former residence or capt. ticle of "Bier." We shafl strive to perpectuate the good reputation for promptitndo and the faithrfl execution of orders as heretofore, and therey increase our custom
Nov9.

FULTON FOUNDRY AND IRON WORKS.
HINCKLEY \& CO.,
MCANUFACTURERS OF STEAM ENGINES;
Quartz, Flour and Saw Mills; Cast Iron Fronts for Buildings, Mining Pumps, and all kinds of Machinery,
Amalgamators, Etc., Etc.

## 47 \& 49 First Street,

BET. MARKET AND MTSSION, SAN FRANCISCO
ALL kinds of Iron and Brass Eastings furnished at short notice. Evary style of anishing to Iron when cast. Repairing to Machinery neatly done D. B. HINCKLEY WM. E. WORTH. WM A. FIELD

SQUARZA'S PUNOH.

## HOME MANUFACTORY,


No. 44 Le idegdoifir strcet, Mentr Sacramento st.
Brach al 406 Monicomery street.


## 3linity and Stientific 3 解rss.

W. B. EWER, Editor.

SATURDAY.
NOVEMBER 29,1862.
The MNLNG AND SCLENTLFIC PRESS is published at the Federal
 vermsements, Hifty Cents per line. A hberal urecoumt made to quarterly advertisers.

## Engravings, Electrotypes, etc.

Emgravings, Electrotypes, etc.
We execute at thas Ullicy Eugrayngs and hustratons on wood, stone,


or cubred rrilivg.
Patrons will remember hat when we execute engraviugs wo will iusert

 vertising Medium to be found mithe country.

## Incorporated Mining Companies.

The furor for incorporating Mining Companies under the Laws of the State of Califurnia, seems to ve on the increase, and not a day passes that some Company with a nominal Capital, ranging from $\$ 100,000$ to $\$ 500,000$, is not Incorporated, by some of our Courts. Although hab.e to abuse, this is undoubtedly the best method of working and man. aging the financlal affairs of a Mining Company, as it facilluates business, enables parties interested to buy and sell, or borrow upon their interest in the mane, and in various other ways brings uadoubted beneits with it. The 'modus opeiandi" is simple and as follaws : All the parties interested in a Ledge or Claim, being desirous of forming a Joiut Stock Company, meet and adopt a vame and a cude of by Laws for the new Company. 'I hey then prepare in due form a Certificate of Incurporation, which sets forth the intention of the parties, and the names of the 'rrustees of the company, this, being signed and acknowledged, is filed with the Clerts of a Court of competent Jurisdiction, aud a certified copy sent to the office of the Secretary of state, after which a trust deed of all the right, title and interest of each of the parties owning in the miue is slgned, acknowledged and recorded, conveying to the Company all theiir interests in the mine. The proper officers are theu elected, the books opened and stock issued. Then the Institucion is fairly af float, on the tide, either to become a permanant, paying fixture, or to subside and die suddenly ou
For the facilitating of business, the collection of assessments, and the general system of conductiog the afiairs of a Company-there is nothing like an Incorporation: But the great trouble with it appears to be, that the mivers of Nevada Territory (where the principal Incorporations have been effected) have conceived the erroneous idea, that the simple form of issuing stock must necessrrily give value to the nine it represents-losing sight of the fact, that, stock of any kind which does not pay dividends, is substantialiy valueless.
The mines of Washoe have now been open long enough for them to commence paying their owners, and with proper management, there is not a developed mine in the Territory that could not be made to pay dividends, which, however small, would serve to renew the confidence which is now beginiug to wane in Incorporated Mining Companies.

Canadian Petroleum-Its Origin.-The Canadian Journal of Art asserts that Canadian petroleum is not derived from coal, nor is it of recent origin. It says :-

Petroleum was formed long before coal, and is the result of the decomposition, under pressure of an infinite number of oil-yielding animals which swarmed in the seas of the
Devonian period, long anterior to the coal. The decompoDevonian period, long anterior to the coal. The decompo-
sition of marine plants may have given some oil to the rocks of Canada and the United States, which are saturated with this curious substance. The shale beds of Collingwood furnish an answer to those who object to the infinite number of animals it would require to produce the oil locked up in the earth. Those shale beds arecomposed altogether of the remains of Trilobi:es-they extend from Lake Hucon to Lake Ontario, and far west and east of these lakes. The oil-bearing rocks of Canada were once a vast coral reef, extending from the Gulf of Mexico to Lake Superior. There is the best ground for belief that the supply of oil will last
for a long period, and thatnew discoveries will be made in for a long period, an
different localities.

Another Asteroid was discovered by Henry M. Parkburst, at New York, on Sept 25. It-is in the constellation
$P$ isces, and is of the eleventh maguitude.

## MONEY NOT WEALTH.

A correspondent has furnisheḑ a communication controverting the leading article in the "Scientific American" of November 8th, which appears under the title of "The Gold Mines of California of No Value to the World." Our correspondent characterises the article in the American as "ridiculous leasoning." If our friend will carefully re-examine the same he will find that the only proper application of his term to the article in question, is to the impropriety of its heading. Of course, the proposition that "Ihe Gold Mines of California" are of "No Value to the World," is ridiculous in the extreme. But the American, after aunouucing the above proposition, immediately loses sight of it and proceeds to discuss the very different proposition that "GoldMining, provided the metal is used for coin, adds nothing to the wealth of mankind." This latter proposition, we apprehend, our correspondent will admit is correct, and incontrovertible. Guld, when "used for coin" may be a valuable auxiliary in the transaction of business, as a representative of wealth-but no amount of gold, maanfactured into coin, can add as much to the value of the wealth of the world as a simple plow made of iron. The following which we quote from the American is correct reasoning, in the main :-
If a man owns a steam engine worth ten thousand dollars,
the engine forms this portion of the wealth of the world.the engine forus this portion of the wealth of the world-And if the mau devotes his surplus labor, besides that which is necessary to procure a living, or expends his surplus profits in constructing a second engine of equal efficiency and
value, he adds another ten thousand dollars to the wealth of value, he adds another ten thousand dollars to the wealh ol labor or profits in simply adding to the weight of his engine, withoui increasing its efficiency or usefulness in any respect, he does not by the ope:ation augment the wealth of himself, of the community or of mankind. In complex states of society, the innumerable exchanges of property which people mutually desire to make, are effected through the medium of money. The articles which first came int.I use as money were the more valuable metals. As civililization advanced, and the organization of society became more complex, certain individuals and associations exchanged their notes, promising to pay either gold or silver or plainum on the presedlation of the note, aud these notes also came into use as money, being received by persons in exchange for articles of value on the faith that the stated quantity of valuable metal could be obtained for them at any time. The money in circulation in this country amounts to about two per cent of the whole wealth of the country. Now the point that we
make is, that this proportion (of tivo per cent) will not be make is, that this proportion (of tivo per cent) will not be
altered by doubling the amount of mosey in the world ; for altered by doubling the amount of mosey in the world; for
prices will advance so as to double the nominal value of other property, and thus the prupotion will be maintained.
"The Gold mines of California" have proved valuable auxiliaries to the increase of the wealth of mankind within the past twelve years. The addition of the $\$ 700,000,000$ which they have given to the "circulating medium," has produced an impetus to commercial and mechanical pursuits which is truly astonishing. They have failed, as we think, to increase the percentage of wealth in proportion to the increase of the percentage of the "circulating medium," as, in the opinion of the American, must be the universal law of the increase of coin; yet they have done better than that-the facility which they have afforded by their increase to a reliable circulating medium has so stimulated all branches of business, and in such a healthy manuer, as to greatly increase the proportionate weallh of the world to its proportion of circulating medium. In all this, however, in far as their yield has been converted into coin, the "Mines of Calfornia" have added nothing to the actual wealth of the world. A coined dollar of California gold is simply a repre sentative of a certain amount of wealth. Destroy its value as a representative of that wealth, and it will be sought after no more earnestly than will its equal weight in iron.
Coal Oil for Drilling Glass.-A correspondent of the Scient fic Amevican says that the best lubricating fluid for drilling glass or very hard steel is coal oil. The direction is to merely wet the point of the drill with the fuid when it is found to give the instrument a better "bite" than anything else. The correspondent says he has thus drilled into the edge of common window glass to the depth of an inch, ing a drill one forty-eighth of an inch in thickness. The glass is not so apt to flaw, or break, as when other substan ces are used.
The finest features of the face are chiseled by the mindas the latter becomes cultivatad and refined, the former becomee more and more beautiful.

Imports and Exportso-The Currency \&uestion.
Our imports, during the nine months preceding Nov. 1st, have been only about $\$ 30,000,000$ in excess of our exports; yet our exports of specie have reached, during the time, the high figure of $\$ 45,000,000$. The balance of trade has but litthe to do with this extra outllow of gold. This excess of specie shipments is due in part to the large transfers of capital which are now being made for investment in foreign stocks, but mainly to the present depreciated condition of our currency. This currency depreciation has increased the rates of foreign exchange about 30 per cent, which, in effect, is equivalent to an export tax of that amount on all produce and manufactures shipped to foreign ports. Our exports the current year are estimated at about $200,000,000$. The present high rate of exchange; therefore, is equivalent to a direct tax of $\$ 60,000,000$ on our exporters, or, indirectly on the consumers of imported goods. This is the annual rate of amount which onr people are now paying as a consequence of our prisent disorgauized currency. The burden might be borne more resignedly, if that amount were being paid into the National Treasury-but when it is borne in mind that this large sum of money goes in to foreign hands, and to that extent di. ectly impoverishes our people, the fact calls loudly upon the incoming Congress to devise some means to remove this great burthen from the nation. Congress can undoubtedly accomplish such an act, without oversteping its constitutional limits.
It has been suggested that the end desired may be reached, or at least very closely approximated, by the Government simply confining itself to the paying out of Certificates of Indebtedness, only instead of Demand Notes, which, when paid in, should be retained and destroyed. This, w.th a vigilant and econemical prosecution of the war, with a view to its speedy termination, would, no doubt, greatly reduce the premium on gold, and, to that extent, relieve the people of the present indirect system of taxation in favor chiefly of a Power which entertains but little sympathy for the Cause of our National Unity. The people earnestly demand some action in this matter.
The Height of an Ocean Wate.-It was prophesied that Mir Brunell's first ship, the Great W estern, would be doubled up as she rested on the crest of the Atlantic wavts; and we all know how the prophesy was fulfilled. When it was made, indeed we were very much in the dark as to the size of the ocean waves. and it was not until the introduction of long steamers that they could be measured with any accuracy. Dr. Scoreshy, while crossing the Atlantic in one of the Cunard boats, some years since, closely observed the waves, and by means of the known length of the ship, was enabled to form a pretty accurate idea of their dimonsions. The old vague account of $t$ eir being mountains ligh was well known before that time to be an exaggeraion; butwe do not think that even philosophers were prepared for the statement made by this observer, at a meeting some years since, of the British Association, that they averaged no more than twenty feet in altitude, and rarely exceeded twentyeight feet.

Ocean Highways--Persons who do not pay special attention to nautical matters, are likely enongh to suppose, that considering the large number of vessels at sea, the surface of the great ocean must be dotted over, almost in every part, with the sails of the countless fleet. This, however, is not the case; the ocean. like the land, has its frequented highways and its wide regions of loneliness, If an observer, furnished with a forty-Herchell telescope power of vision, could be elevated to a height great enough to give him a view of the whule Atlantic, he would be struck by beholding hundreds of vessels following one another upon certain lines along a very irregular course, while over a very large portion of the surface not a sail would be visible. In the exteusive spaces on both sides of these "Ocean Paths," few vessels will be seen.
Map of Netada T'erritory.-Warren Holt, Esq. has just issued another splendid map of Nevada Territory, compiled and drawn by Dr. He ry Degroot, the editor of the Virginia City Times. Thus far no better map has appeared and its sale has been extensive. It appears to contain every place and district of note and is executed on copper plates and colored. It will prove valuable and instructive to those interested in that quarter.

## A New Amalgamator.

The Miner's Foundry, of this city, has been for some weck; engaged in casting and fimshing of a number of a malganatius pans or tubs, un a new principle. They are the invention of Mr. Zenus Wheeler, furmerly of Cruss Valley, Nevada county, and will bo known as "Whecher's Amalgamatons." They may be used for bo higold and silver. One principle involved in this invention is that the amalgamatiug and triturating is done in one set of tubs or pans, and the separating (of the quicksilver and amalram from the sand) is accouplished in another. A set of these pans was constructed at the above foundry and forwarded to the Zephyr Flat mill, on C'arson river, owned by Messrs Raymond it Thomson, ahout three months since, where they have been runniug, side by side, with the pans in common use, and operating apon a common vat of sands from the mill. The differeace in the yield of the two classes of pans, as we learn from several letters from the proprietors and agents of the mill, which we have been ullowed to examine, has been from 20 to 30 per cent in favor of the Wheeler pan. This percentage is certainly very large, and we should hesitate to give it were we not able to do so upon the authority of the owners and agents of the mill, who have no other interest in the invention than the providing of the most efficient process for saving the mineral from their ores. The ore upon which the mill i* rumning is the 3 d class Ophir ore, a large gquantity of which has been sold by the Ophir Company to Nessrs Raymoud \& Thomsou. These geatlemen have shown their confidence in the Wheeler pans loy ordering eight more of them, ( $a$ full compliment for the mill.) The order has been filled as above, and the pans are already at the mill and will soon be at work. Mr Wheeler has secured a patent for his invention. We shall give an illustration of it next week, or the week after, and a fall description. We trust this invention may prove to be all that it is represented. Every invention tending to improve our mining facilities adds matorially to the wealth of our State by increasing the yield of her mines.

Machines and Devices for the Reduction of Ores.-It seems from present appearances, that most Mining Associations, throughout this State and Nevada Territory, are doing very little in the working of ores except by the modes heretofore employed, and in the latter district they are falling back upon Mexican and German processes. A most happy omen has manifested itself, namely: that when a professional quack arrives with new processes, he is viewed with suspicion and distrust, hence their operations are limited and short lived in that quarter. Our stamp mills as constracted by the different founderies in this city, seem to fully answer their intended purpose. An innumerable number of pans for amalgamation have, of late, been pre. sented to the miniug public, many of which are employed with great advantage, and form, at present, the chief utensil in Washoe for extracting silver and gold. The Freiberg barrel process seems, however, to gain over all new fangled notions, a few of the leading companies having adopted this mode already.

The latest discovery announced is that of a smelting furnace on an entirely new principle-the oxygen of the atmosphere being the chief or only fuel employed. This invention is designed to do away with all reduction works and extract the ores by smelting alone. The inventor is a lady, Mrs. E.J. Hall, of this city. We have in our office the result of the last attempt to put the invention to a practical test. It was tried upon copper ore, with but partial success. It is clained, however, that the failure was caused by an improper coustruction of some portion of the furnace, which cracked during the progress of the experiment. We are told that another trial is to be made soon. Whenever any successful and practical result is attained we shall be happy to announce the same and do what we can to bring the invention into notice and use.

Grain Shifments.-Large quantities of grain and flour are now being shipped from New York to Europe. During the week ending October 17th, there were thus shipped from that port, $1,140,750$ busbels of grain, and 40,138 barrels of flour-in addition a general assortment of other provisions.

## Metallurgical Treaiment of Pyriteg.

No mining district or enuntry ontside of Mexico and the South-Amer can stutes, has ever furuistued a greater field for the extraction of preciuss metals from I'yrites, than this Siate and adjacent Territory. Comparatively few have even succeeded iu making this branch of industry puy, uring to immense expenses, time and labor required in treatiog minerals of this nature ; and at present, only Pyrites containing a groodly portion of gold, will pay to work. It may be safely estiouated (although many reducing establishments concentrate their sulphurets or pyrites) that, perhaps millions of dollars are allowed to float and pass through the tail-races and streams, in a year. The metallurgical treatmeat of prrites is one involving great chemical skill, and can ouly be undertaken by persons of experience. Although many general processes for the reduction of ores have heretofore failed, yet a universal method for treating pyrites has of late been patented, which works successfully, and greater results have been obtained by this process, than by any other method heretofore known. A short distance from this city, on the San Bruno road, may be seen a newly constructed edifice, containing a reverberatory furnace of considerable capacity, several vats, from 6 to 8 feet in diameter and from 4 to 5 feet deep, metallic gas generators, together with much chemical aparatus, and paraphanalia requisite in a well established metallurgical work. The process which this enterprising proprietor employs bas just been patentid and is known as the Hydro-chloric process. In a former editiou of this journal we gave a description of the modus operandi. Many mill awners and mining companies have made arrangements with this establishment for the reduction of their sulpburets, and shipments arrive constantly at the works, which are not far from a landing on the bay. The gentleman who has erected these works is Mr. G. F. Deetken, who has had years of experience in this branch, he has also adopted expedicious plans for concentrating the sulphurets or pyrites, and he shortly anticipates to contract for their pyrites, with all the mills in the State, either purchasing the same at the assay value, or reducing the same for a stipulated percentage., It may be safely stated that from 20 to 30 per cent more of the gold nay be gained, than by any of the amalgamation processes.

Pressure of Steam in Bohlers.-A pamphlet has been published in England by Mr. Anderson, the well known machinest, on the managenent of steam boilers, in which he says that the pressure within a steam boiler is greater than is generally supposed. With a pressure of fifty pounds per square inch, it amounts to 7200 pounds on every part of the surface exposed to the steam, amounting frequently to many thousand of tons in the boiler, thus accounting fur the enormous havoc made by explosions. The joints are weaker than the solid parts; gond solid plate will withstand from 56,000 to 60,000 pounds per square ineh of sectional areathe joints will give way at about 34,000 pounds, which shows the importance of seeing that the rivets and other fastenings are always in sound condition. Mr. Anderson divides explosions into four classes, namely, from want of strength, deficiency of water, heating of plates, and a variety of other circumstances.
The Twinkling of the Stare.-According to M. Arago, astronomers and others have failed to arrive at a satisfactory explanation of the twinkling of the stars on account of their failure to give an exact definition of the term scintilation. He affirms then, that, in so far as naked eye observers of the heavens are concerned, scintilation, or twiukling, consists in very rapid fluctuations in the brightness of the stars. These variations are always accompanied by variations of color and secondary effects, which are the immediate consequences of every increase or dimunition of brightness; such as cunsiderable alteration in the apparent magnitude of the stars, and in the length of the diverging rays, which appear to issue in different directions from their centers. It has been ramarked from a very early age that the phenomena of twinkling is accompanied by a change of color. It is asserted that the name of Barakeach, given by the Arabians to the star Sirius, signifies the star of a thousand colors. M. Arago also asserts that ihe planets twinkle.
Tye less a man knows, the wider his mouth opens. It is as impossible for a fool to keep his jaws shut as it is for a sick oyster to keep his shell closed.

Mintry Stock Report.
During the paist two weels the Mrfing 'tuck Shriset, far this cits, bas beon rube active than for some weehs pieverus.
Uphir, niplearn to be oteadity udvanctug. Sinborn's circular of last woek quites ume sitle of $i 6$ shares ( 3 few) al §ivuo por toot, ou 60 days. Siales have varied during the lust ten duys from $\$ 2,586$ to $\$ 5000$ per foot. The Market for this ntork ts very irr cgular. Buyers at the present time are ev-
ideuty basing their opurations somewhat on the expectod diviaende for Idently basing their operations sonewhat on the
this nenth. 17!a feyt changed hauds hatt wrebs.
Goutd and Cuny is steadily mivuncomb-y ribubiy with the expectation of an eurly startug of their new and extensive mill. The quotatous for tha week have rull frona $\$ 2,200$ to $\$ 2,300$ per foct.
Californa is quoted at $\$ 1,400$. Markel quilet.
Choller, rests quiet at preseut, with smull sales at slightly roduced rateo of privivusquoutions. It is 8 rm at $\$ 2,5-\$ 290$ auked.
 Potwi hns been but little ouguired for since the late adverso decislon
with regard to tittu. It is quoted at $\$ 70-$ enquired for at $\$ 65$. North Pousi is quoted at $\$ 0-$ offered at $\$ 12$ with no pules.
Nierra Nevadn has improved nomew bat duriog the week. It is quoted at frum $\$ 76$ to $\$ 80$.
Laney is quutul duil at $\$ 200$ m 220 asked.
Burning Hobcow. Culsiveruble has been done la this ntock during the hast ten davs. Quoted als60 to $\$ 75$ Boing freoly offered, of late, its tenteacy bas been slightly duwaward. Present indications, however, iatimate an early aulvauce.
Hount Davidsou is selling from $\$ 5$ to $\$ 550$
Meredith is quoted al $\$ 15$ to $\$ 20-$ an udvuuce or $\$ 5$.
Burnside is quotod ut $\$ 22$ to $\$ 25$-Buyers free at $\$ 20$ to $\$ 22$.
Towa quoted at $\$ 130$ to $\$ 140$.
Norton quoted at froro $\$ 12$ to $\$ 15$-a large aivance.
Sacramento is quoted al $\$ 25$-sialcable at $\$ 22$.
Hazel Green which has recently struck their ledge, was at Arst thereafter quoted at from $\$ 8$ to 10 , but owing to a generat disposition of alure horders to sell, the stock declined to $\$ 5$. Lato accounts, however, roport tbat The workmea continuo to mabe developments of a valuable mine, aud it ia confidently expected that there will be an early demand for the Stock at advan ced prices.
Chenulgo saleable at $\$ 1 / 2$ asknns 3. St. Louis $\$ 3$. Kutch \& Baker ground has been enquired for at $\$ 10$ to $\$ 12$-nate offered. Cedar Hill Tuauel ib beld at $\$ 8$-no salles. Lato discoveries at that point will probably soon bring out purchasors. Rogers is quoted at $\$ 22 / 21$.
Fsmeralda Stocks.

Wide Test appears to be a live institution and is quoted at from $\$ 385$ to $\$ 400$ in $\$$ aut the Bulletin Miuliag Steck report of Nov, 25. It has improvel about $\$ 90$ during the weels.
Autelopie is quted at $\$ 65-w$ with $\$ 75$ to $\$ 100$ nsked.
Etun is quoted at $\$ 8$ and $\$ 10$ is asked.
silver Hisi quoted at the Mining Bourd at \$10.
Utab has no buyers-hotd at $\$ 40$.
Rio Del Monto quoted at $\$ 11$ with $\$ 15$ asked.
Coso Stocls.
The Joserhine, Coso and Willow Syrings are the best known Stocks in this district-but uo recent transactions have been made in either of them.The former is held ut $\$ 20$. No offers are quoted from either of the others. Mexican Mines.
St. Nicholas Silver Mining Co. is quoted by Sanvorn's Circular at $\$ 100$. . Mina Prieta find + nu recent buyers, but is held at from $\$ 110$ to $\$ 130$.
Minn Prieta finda nu recent
Dius Padre is hold at $\$ 50$.
Dius Padre is hold at $\$ 50$.
Considerabie enquiry bas
Considerab:e enguiry tas receutly been made for low pricod stocksor time.

Delay.-The delay of our present issue has been unavoidable in consequence of the necessarily prolonged absence of the editor, to so arrange his business in the mountains that he might hereafter devote his antire time and energics to the management of the Press. This has now been accomplished, and he can promise the prompt and regular issue of the paper hereafter. Some weeks may elapse before he will be able to make it what such a paper should be; but, by the promised assistance of friends he confidently hopes, ere long, to render the Mining and Scienlific Press a welcome and valuable weekly visitor to the miner and mechanic, the inventor and maunfacturer, and indeed to every one in pursuit of useful and practical knowledge in every department of life and indostry.

Iron Clads and the Federal Nayy.-There are at the present time not less than 384 ressels of all classes built and being built for our navy. Of these 13 are iron clad, now affloat, and 40 -mostly gunboats, in process of construction. When these are a'l completed we shall number about 40 iron-clads-a number nearly equal, and quite as effective as all the other iron-clads of the world combined!
Equalizing the Sexes-At the outbrealz of the present rebellion, as appeared by the census of 1860 , there were 730,000 more males than females in the Union-a fact unprecedented in the bistory of any other civilized nation.The war, however, is fast equalizing the sexes.
A full and particular account of the Grass Valley Silver Mines will be given in our next issue.

## Important Publicaiton.

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Metalic and Agricaltural Wealth of the Pacific States." The editor of this work has recently disposed of the "Miaing and Scientific Press," with the riew of devoting his antire attention to the publication of the work; to this end he is making arrangements for an early visit to the Atlantic States and Europe. The work if carried out according to the prospectus, will be one of the most valuadle publications yet presented to the public, and will prove of incalculable bene-
fit to California and the Pacific Coast generally, in bringing the immense mineral wealth of this region more prominently before the Capitalists of Europe. The object is a laudable one and ought to be encunraged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the sub-
jects of which he treats. He desires but little aid and that we trust he will readily obtain. The ftllowing is the frospectus :

## PROSFECTUS TO THE FEOFLE OF TEE STATE OF OALIFORNLA, OREGON, AND ADJSCENT теrratosies,

The Salscriber, one of your earliest ciftizens of California, and for the
most of bis time engaged as a journalist, aud particularly of tate in a jourmost of his time engaged as a journalist, aud particularly of late in a jour-
nal deroted to the clief resources of the Pacific States, respectfully submits the following plan and proposition for the purpose of brivging hither from
England, France and Germany the workivg classes, mechanics, artizans. miEners, and metallurgists for the purpose of devel oping the resources of our thiniy populated Staves and Yerritories, thereby reducing labor, the estabnow lying dormant, and to worls our mines. The benebits accruing to our Government-to marioe conseyances-the merchant-the manufacturer,
the mining compantes and profesional community, canvot but be beoeficial, provided the facilities are offered to such emigrants, and according to the tonor of our laws gorerning such. For these purposes the subscriber de-
sires to seek only the necessary or pecuniary nid to take him across the Pacific and Atlentic, so that he may be enabled to lay before the people of Europe a work which he has compiled from authentic sources, comprising the Culifornia, British Columbin, etc., logether with a synopsis of the climatology, agriculture, arts and manufactures, with interesting statistics of our
imports exports, and population. Also, the orranic acts of our state, the local and general laws governiog miniug, the Pre-cmptios Act, and kindred subjects pertaiaing to the Pacigic States. The au. Lor reserving for biwself the right of translation of this work (which has cost him three yeurs of his time to collect and compile) in the German and French laugaages.
Ho contemplates making the tour to the Allantic States and Europe in February or March, 1863, and will equip limself with the mineral materi-
als, fossil remaing, etc., and illustrate them oy diagrams and discourses throughout the Alladtic sitates ado Europe.
Such a work which your petitioner bas io view cannot be published in this State without an extruordinary outlay, oor have we the maternus, ar.
tists or skill in copperplate or wood engraving. The work will comprise tists or thall in copperplate or wood engraving. The work will comprise
from 400 to 500 pages, to be handsnmely illustrated with colored phates, maps, etc., quarto form. The subecriber will add thereto a complete list of all the associations and compunies, especially midng compuries.
He gues to Europe for the purpose of seeing all the manulacturing places, machines and utensils; also to the feading mining districts and metallurgical establishments, to acquire from the best sources there the best
mode of treatrag our rich minerals, aud lay these several importaut feat ures bofore our peoplo through the Mining and Scientific Press, and the work he hereby offers, But the most important subject in his mission is the inducements he will offer to Eurupeans of our immensely rich minng Gelds and agricultural lands, togetber with the great advantages offered by a liberal and protective govermment for industrious citizens.
The subseriber, therefore, calls upon the clitizens in the Pacific States who have the interests of our new states nearest their heart, to aid him in
th is gravd but laudable urdertaking with means. Each subscriber will be furvished with a copy of this work, which is designed to be useful in the tounting house, to the professiopal man and miver. The author desires to state that whatever aid or subscriptiou he may be furnished with by the
people of this State he wiil refund atter the publication of the wort, or

## leave the amount to be taken out in bouks.

## Respectfully submitted,

JULIUS SILVERSMITH.
The Spider.-This sprightly little insect, usually so much dreaded, is as cunning and courageous, as he is watchful and active. He never hesitates to give battle when his in clination tends that way, and is prompt in his own defense when attacked. But Mr. Spider's morals are not of the best quality, and his voracious appetite sometimes leads him astray ; for instance the male will frequently make a meal of his progeay, and highly relish the dish; but this is not always a safe operation, as the female is more affectionate, and loves them tenderly; andif she cannot save them in circumstances of peril, she prefers to perish with them.-
The love which she bears to her little ones, she does not alThe love which she bears to her little ones, she does not al-
ways extend toward her mate; but sometimes, after having in vain attempted to prevent him from devouring her offspring, she chauges her tactics, and acting on the idea that a canni bal may himself be fit for food, she falls upou him-conquers
him, and eats him up.

What is Itret?-Old Dr. Cooper, of South Carolina, used to say to his students, "Don't be afraid of a little dirt, young gentlemen. What is dirt? Why nothing at all of
fensive when chemically viewed. Rub a little alkali upon that 'dirty-grease spot,' on your coat, and it undergoes a chemical change and becomes soap. Now rub it with a little water, and it disappears; it is neither grease, soap, water, nor dirt. 'That is not a very odorous pile of dirt,' yon observe there. Well, scatter a little gipsum over it and it is no longer dirty. Everything you call dirt, is worthy your notice as students of chemistry. Analize it! It will all separate into very clean elements.
"Dirt makes corn, corn makes bread and meat, and that makes a very sweet young lady that I saw one of you kissing last night. So after all you were kissing dirt-particularly if she whitens her skin with chalk or fuller's earth.There is no telling, young gentlemen, what is dirt. Though I must say that rubbing such stuff upon the beautiful skin
of a young lady is a dirty practice. 'Pearl powder,' I think is made of bismuth-nothing but dirt."
Ancient Doctors.-Mayerne, a French physician, who is said to have nambered among his patients two French and three Euglish sovereigns-Henry IV. avd Louis XIII. of France, and James I., Charles I., and Charles II. of Eng-
land-was fond of dosing his patients with "pulverized human bones." A chief ingredient in his gout powder was "raspings of a human sliull urbmried," In the composi-
tion of his celebrated "balsam of bats." he enployed "adtion of his celebrated "balsam of bats." he eloployed "ad-
ders, bats, sucking whelps, eari hworms, hog's grease, the marrow of a s ag. aod the thigh-bone of an ox." Belief in the efficacy of charms and amulets was once universal with the faculty, and precious stones were regarded as sovereign remedies. The lyyacinth and topaz hung about the neck or taken in dink, were certain "to resist sorrow and recreate
the heart." The sapphire was "a great enemy to black choler," and was believed to "free the mind and mend manners." A certain kind of onyx. was supposed to preserve the vigor and good estate of the whole body. One phssician went so
far ss to declare "that in the body of a swallow there is a far ss to declare "that in the body of a swallow there is a
stone found called chelidonius, which, if it be lapped in a fair cloth and tied to the right arm, will cure lun ties, madmen, and make them amiable and merry." Herbs were also in great request, and daisy tea was accounted a certain cure lor gout and rheumatism. Dr. Bulleyn (of the same family
as Quepln Aan Bulleyn,) a physician in the reign of Elizaas Quepn An Bulleyn, a physician in the reign of Eliza-
beth, prescribed for a child suffering under a certain nervous malady "a small young mouse roasted." The same doctor stated that "snayles broken from the shelles and sodden in whyte wyoe with oyle and sugar are $\mathrm{V} \in \mathrm{ry}$ holsome, because they be hoat and moist for the straightness of the lungs and cold cough.'
Fatal Experiment.-A few years ago, a young lady in easy circumstances eojoyed good health; she was very plump had a good a ppetite and a complexion bloming with roses
and lilies. She begau to look upou her plumpness with suspicion; for her mother was very fat, and she was afraid of becoming like her. Accordingly, she con-ulted a woman, who advised her to drink a small glass of vinegar daily: the young lady followed her advice, and her plumpness diminished. she was delighted with the success of the remedy and continued it for more than a montl. She began to liave
a cough, but it was dry at its commencement, and was cona cough, but it was dry at its commencement, and was con-
sidered as a slight cold which would go off. Meantime, from day to day, it became moist; a slow fever came on. and a difficulty of breathing; her body became lan, and wasted away; night sweats, swelling of the feet and of the legs succeeded, and a diarrhea terminated her life. on examination, all the lohes of the lungs were found filled with lubercles, aud somewhat resenbling a bunch of grapes.

Compostrors.-Compositors are a placid and unimpressionable race, who do their work datifully, without yielding to the intellectual influences represented by it. A clanse of an Act of Parliament, with all its whereases, and be it en-
acteds, and hereby repealeds, creates quite as much emotion in them as the most brilliant burst of the fashionable poet of the day. They will set you up a psalu or blasphemous ditty with the same equanimity, not retaining in their minds any clear distinction between them. Your writing must be
something very wonderful, indeed, before they distinguish it something very wonderful, indeed, before they distinguish it from other "copy," except by the goodness or badness of the
hand. A state paper, which all the world is mad to know about, is quite safe in a printing office; and they will set up what here is set down of them without noticing that it refers to themselves. It is said that this stoic indifference is a wonderful provision for the preservation of the purity of
literature, and that were compositors to think with the auliterature, and that were compositors to think with
thor under the "stick," they might make dire havoc.

Frenca glove-makers are said to derive a handsome rev: enue from the rats of the Paris sewers, the integuments of Which vermin are converted into the most filmy of white
gloves for use in London daawing rooms.

RECENT PATENTS-Granted to Caltfornia Invenors through the Pacific Agebcy, J. Sieversmith, Solicitor:
E. E. Matteson, Nevada: Hydraulic Derrick. This invention has been illustrated in this journal, and has obtained great celebrity throughout the State.
Elander Heath, San Francisco, Spiral Spice and Sage Mill. See "Mining and Scientific Préss," June 9th, $1^{\circ} 62, \mathrm{Vol} . \mathrm{V} .$, No. XIII.
G. F. Deftren, formerly of Nevada: Apparatus for separaling Gold from Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation. Mr. D. has receutly established himself in this County, on the San Brano Road. near the Islais Creek, where he has erected chemical and metallurgical works.
Tight Boots.-For years there has been a great deal of fault found with the prevailing Paris fashions, b cause they necessitated the compression of ladjes' waists beyond the natural 1 mits; and we have been among the fault-finders, because that we believed that undue compression of any part of the human form is priductive of evil results. We begin in the beyinning with this matter, in the first place objectiug in toto to the old-fashioned style of babies' belly-
bands, and keep on with our objections whenever and wherebands, and keep on with our objections whenever and where-
ever undue compression or restraint upon body or limbs is used.
Tight waists are our greatest abomination, and tight boots come next. They are not quite so life-destroying as corsets, but they are just as fuolish; and be whose thoughts are kept down by corns, bunions, and carbuncles never can expect to succe $d$. The dandy who will endure the misery
of a tight boot for the sake of showing a small foot-and there are plenty of them-deserves no pity.

Bootmakers want reforming. There is no more than one in a hundred who kuows how to make a good fitting article, and they will not learn, because people are not so particular as they should be. We would be willing to wager, if it were in our way, that there is not a dozen pair of feet in New York that have not been forced out of their natural shape by the shoemakers. True, we are not so bad as the Chinese, but we are bad enough
The luman foot is a very complex affair; its bones, and tendons, the nerves, and muscles are wonderfully arranged, and were at first all put in the position where they could work together for the best advantage, and it is our duty to keep them as nearly so as possible; and to do this, every full grown man and woman should have a pair of lasts of their own, made exactly like their feet, and should wear no boots or shoes not made carefully on these lasts.-Hygienic Teacher.
How to Brfak a Bad Habit.-Uuderstand clearly the reasons, and all the reasons, why the habit is injurious.Study the snbject till there is no lingenng doubt in your mind. Avoid the places, the persons, the thoughts that lead to the temptation. Frequent the places, associate with the persons, indulge the thoughts, that lead apyay from the temptation. K Kep busy; idleness is the strength of bad habits. Do not give up the strugele when you have broken your resolution once, twice, ten times, a thousand times.That only shows how much need there is for you to strive.
When you have broken your resolution, just think the matWhen you have broken your resolution, just think the mat-
ter over, and endeavor to understand why it was you failed, so that you may be on your guard against a recurrence of the same circumstances. Do nit think it a little or an easy thing you have undertaken. It is folly to expect to break up a babit in a day, which may have beet gathering strength
for years. This, in brief, is our answer to a question which for years. This, in brief, is our answer to a question which
is put to us by anxious inquirers from ten to twenty times is put to us by anxious inquir
a-week.-Hyqienic Teacher.

A Rolling Stone Gathers so Moss.-Well! what of that! Who wants to be a mossy old stone, away in some damp corner of a pasture, where sunshine and fresh air never come, for the cows to rub themselves against, and for snails and bugs to crawl over, and for toads to squat under among poisonous weeds
It is far better to be a smooth and polished stone, rolling along in the brawling stream of human life, wearing off the rough corners, and bringing out the firm crystaline a ructure of the granite. or the delicate veins of the agate or the chalcedony.
It is this perpetnal chafing and rubbing in the whirling what use he is good for. The sandstone and soapstone are soon grourd down-to sand and mad, but the firm rock is selected for the towering fortress, and the diamond is cut and polished for the monarch's crown.
SEawerd is being pxtensively used by New York upholsters in place of curled hair. It is said to be a: very good substitute, and quite a brisk business has grown up on Long Island, in gathering and drying it for the market. It is put op in bales like hay.

PACIFIC MAIT STEAMSHIP COMPANY'S no to PANAMA FOR PANAMA,
The folluwing Steamstb|pe will te dinpatelucd in the montis of December 1862


Will lesve Folson Street Wharf, with rassengers and Treasure, for Puama at o OCLUCK, A. M., PENCTCALLY,
And connect, via Funuma Rullirow, ut Aspluwull, with steamships for N. Yorks For tretght of passage, apply to

FORBES \& BABCOCK, Agents,
Je4
Comer of Sacramento und Lentitesiorli sts.

## THE NICARAGUA ROUTE!

People's Line,
CONNECTING CALIFORINIA and NEW YORK.
700 Miles shorter than any other route!!
EXPECTED TO MAKE THE 'TRIP THROUGH WITHIN 21 DAYS.

The fast and favorite Double Engine Steamship
MOSES TAYLOR, 1,500 tons,
E. HOWES

Commander
Whil be disputched for
$S A N J U A N D E L S U R$,
From Mission street Wharf,
Punctually at 9 weluek $\boldsymbol{A}$ 3., of
monday,
Connecting with the splendid Steamship

## AMERICA,

2,000 Tons
JEFF. MAURY, Commander
THE PEOPLE'S LINE
Hus been eatablished ou this
shortest, safest and Healthiest Route;
OPIOSITION,
And every Californian should give it a prefereuee for the public good, Reduced Fare, Good Accommodations, and Quick Trips.
This line is intended to boa pormaveucy, and is pot put on for the purpose of being bought or driven uff. Sperd, safety and the ucmast comfort of pus
sengers are ule maiu ibjects. To secure theste pat merchandise freight (uth
 - Tight Compartments, iud in muequalled tor safety as well as apeed ROSS, DEMPSTER \& CO., Agents,

425 and 427 , Battery streot.

## LABOR-SAVING <br> Rock Drilling Machines.

To ENGNERRS, RALROAD CONTRACTORS, TURNPIKE AND QUARRYwill continue to receive crders for
HAND, HORSE, AND
STEAM-POWER MACHINEs.
The Hand Machines are expressly adapted for work ing in Tunnels, Galle-
ries, etc., one naa performiug the Jubor of ture ju the ordiuary way nes, elc., one nas periformiug the labor of three in the ordiaary way A FOUR.HORSE POWER MACHINE, operated by oue mal, drives a ma-
cline capable of drilling a four to six nuct diameter hole in granite four feet
 being limited only by the durability of the steel drill.
Satsfictory refereuce will be given as to the practical working or the
machiue, and ilis eatire succuss iu reduciag the gosi of drilliug holes to onetenth of the lormer expense, nad on a rock excevation of any extent, from
 have rock excivations to make in any part of the Sthe, the subseriber will
underthk and guarauteo to perform tie work required, at a saving of at



## F. G. BEPLER,

## PRACTICAL COPPERSMITH,

No. 118 (Old No. 22) Bush street,
Between Sansome and Battery,
Say Franctico.

Whilst thankful for the former contidence bestowed upon me, I desire to say that I am ready to make and repair with cheapness aud dispateh every
thing in my line of business ; especially all kiuds of apparatus used in Bew thing in my line of business; especially all kiuds of apparatus used in Brew-
eries and Distilleries; also. all puch us are used where steam, spirits, or
pumps of any kind be required pumps of any kind be required. Also, Kitcheo utensils for Hotels, Restuu-
runts and private houses. Baking apparatus for Bakers and Confectiouer's, as well as all other binds of copper work,
all orders from the country promptly attended to.

## A. ROMAN \& CO.

wholesale and retail
BOOK ESTABLISHMENT. 417 and 410 Momigomery street, SAN IFRANCISCO.
2a. Orders rospectfully solicitel and prompty attended to.
A Treatiae on Muthllurgy, Comprising Minng and General and Particular
Metallurgical Operativis, Etc. Ktc. By Frederick Overman. Metallurgical Operativa, Ete. Ete. By Frederick Overman.
A Manual of Metallurgy, or A Practical Treatiso on the Chemistry of Motals, Sanual of Metallurgy, more particularly of the prectaus metals; but inelud lag such otbers us ure employed in dental practice.
Records of Mining and Mctallurgy, or Facte and Memoranda for the Use of iggot on the Clsemistry and stining of Cupper.
Practical Minerai Assuylug and Mining. Overman.
Gold tioning and ansaying; by Hhips.
Miners' 'ompanion nud Gide, complied by silversmith.
Assayers' Gulde; or Practical dircetious to Aesayers, Mipers and Smelters.
Iractical Assaying, by Mielwill.
Iver Ores and silver Mines, by Pro. Blake.
Ure's Ihetionary of Arts, Manuractures and 3fines.
Wensbach's Mechanies of Juchinery and Eogineering.
Nerillo's Hydraulic Formula Tables.
Fresenius' Clumital Analysis.
423. Books imported to order on short notice. Ten

## A. ROMAN \& CO., 4178419 Montoomerv Street.

Gird's BUDDING KNIFE
THE ATTENTION OF FARMERS, HORTICULTURISTS AND CUTLERS. OR
vention. For descriptiou aud engruving sce linivg swo Scientific prass No. 24, vol.
State, Terrritory and workshop rights for sale at reasonabie prices.
Address,
SILVERSMUTH, (Agent for Pateutee, )

## Bur Beactitung für 巨rfinder.

Exfinber, metaje nidit mit ber englifiden Spradje belmut fint, fönnen iffe Mitheilungen in Der beutfden Sprade madera
Sfizzen von Erfinburgen mitfurzen, Dentlidy geidqriebenen Befdreibungen belicbe mant $\mathrm{z}^{2}$ aboreffitern an.

Jum. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter, san francisco

## wholesale and retall dealers in

## PIANOS,SHEET MUSIC

 italian stringeINSTRUMENTS OF ALL KINDS, de., \&c.
Sole agents for the coiel irated manufacturers,
A. A. Gale \& Co., New York;
'T. GILBEkT, Boston;
C. MEYER, Philadelphia.

Whose Pianos they have always on hand, tor sale and to rent.
New Musi pinos for Rent.
Ned. Music assorted and by steamer. New Music pub eral discount made to the trade and professors of music. aul4

## V. SQUARZA'S

## PUNCII FACTORY.

$\mathrm{W}^{\mathrm{E}}$ PREsent herewtre the portrait and trade mark or
 manufnctured by lim. We may mention that Ar. Squarza is au fall in the
 ettablitibleunts for the sale of his famous Punch-one on Leidesdurf, the

other on Montgomery streel-which are coustantly thronged with our bon | $\begin{array}{l}\text { other on } \\ \text { vivante. }\end{array}$ |
| :--- |

The following is a list of bis liquors, all of which wo have tasted, and fin them the most delicious and barmless beverages in this city, being pure,


## Rum Puneb, Cognu do. do. dan dati. divorce

Aati-Div
Cofee
Tea
Tea
Pineapple

## Kirschwasser, Brandy Cocktail

 Brandy Cocktail,Anti-1y spepsia Bitters,


# Dr. Van Zandt, <br> Consulting Physioian and Surgeons OFFICE: <br> Corner of Washington and Sansome Streets. 

The Great Success of this Century, as an Aid to Practical Medicine.

The Mystelious Problem of Material Nature, Electricity ! Made Subservient for the Cure of all Norvous and Spinal Diseases.

THAT THIS PRINCIPLE, successfully applied to cliseased states
 tulity knowr as nervous hutlueuce and necessarily mush have much to do in obviatiug diseased activa.

> Too Much Cannot Be Said

Io its praise ; for it is highly grobable that in health there is an exact equilibrlum of the ELECTRIC priuciple; und should thin searel and bidden equi tribed whea it sthould be postively charged-is not the current broken, and is there nut a war of furcess going on wour system? Thíc peeds correcting, aud in order that the lissues of the body should be eusceptible to remedial agents we must first restore aud
The spinal und sympathenc uervo systerns. Belleviog an I do most firmly in tus great magnotic or clectrical hatensity of the earth, with its laflucnce
upou our bodics iu health and discuse, Inm leu to take advantage of the upou our budies iu health and dusease, $I$ im led to take advautage of the
press, turough whioh to awaken atteation to the subject, that good may preses, throug
come to all.

No Compromese whth Diseage.
Give the body strength, and hature will relseve herself, Purify the life blow, render tuo stomach, hie nervous, the dispiritell, the melaneholic, the dyspectic and the invalid revive under its beugu mituence.

To the Ladies of Califormis.
Dr. Van Zandt's success with compluiuts of women, Loth in family and office practice, is owing to his correct viows of the origul of all their mal-
adies. Latlies cau cusbult him with entire coufdence, us he tu no speculator adies. Ladies cau cuisult him with entire confidence, us he is no speculator
upon human ills-but is proving limself the ouly member of the legitimate profession in Cutiornia who is really suceessfal in removing those ills which cately altuned hervous orgausm, logether with thear great sympathetio Ifto, readers hime duably able to assuage thone silent complaiulugs which they bear so patieutly aud so long. No social disquietude veed luger af-
finct our home circles ; for live can arause the stricken energies ; restore the Wet our home circles; for he can arouse the stricken energies; restore the
wonted toulcity of the body; awaken the melavelolic aud deapondings ; ar-
rest those draius which cause 80 mucls soxiety rest those drains which cause so much anxiety; cure those prutean mala-

Baffed the Skill or Physicians.
Develop appetite, lito and aulmatiou, dispel narvous headache, sinking at the stomach, waudering pains, wanting awhy of aticugth ; extreme debility general depressiou of lite's power, which, go to reder ber life a misery
nud death it boon. Ir. Van Landt, with lis uew method of exwtor kilectro-Galvauic current, together with bis romedial measures which are adapted to the necessilues of culitornia, will assure you of a onmplete and
radicul recovery of ull bodily and muntial lutirmities, and will restore you to usefralness, aud spare you a bleesiag to your family and to soviety.

## All the World Over

wherever disease exists, whetber special to the koil and climate or com-
 condagous-it is an necestany to restnre the ELECRRO-GALVANIC equilibri-
um, especially in Calfirnir, as it is to give fuod to the mtarring. This statoment is basen upua a sernes of tacts extending through many years, and
verefied by hundreds of jatieuts ; su that no principle of science, no rule of
 tion on Electricity for the cure of nill nervous states of the body, faulty di-
gesclon, men al aud physica! debility or prosfration geston, meu al aud plysical debility or prostration, coughs, asthma, wan-
deriug paius of a rheumatic, gruaty ur murcurial character, and all forms of deriog pans of' a rheumatic, giouty ur murcurial character, and all forms of
disease, the result of serolulu or cathectic labit of body,

> None Need Despair of Relicf.

If you have ulcers whel will not heal-pains that cannot be removed -
melancluly which you canaot shate of-loss of puwer whel you cannot gain-deopession of spirits which weigh you down-wakofuluess that knows uo sle eping-busiuess that liaguinhes lor want of entrgy-it void which no
society cau fill-suspicion which no dssurauce can allay-Go to Dr. Van Kandt, tor hir great succens, and the safety with which he administers his new methud ui Liectrical excitation, together with bis remedies, which are
adapted to the requilements of climate and consthtution, will assure you a radical removal of all bodily' and mental insimities, within the scope of

## The Eyenna Far Diseases.

It must not be forgotten by the cye and ear sufferers that Dr . Van Zandt has made these aflictions an especial study, and that bo is the only Surgeon ea our state, who has a diploma for that branch of practice. Very are cured by his electro-galvauic bultery-as amausoris, squmting, catar-
act, foating specks berore vision, twitching of tho eyelids, vervoua deafoens, roariug aud buzzing nolses in the ears, giddiuess, etc. All operations suceesstully done on those delicate organs uf seluse.

Olfict-Curner of Washugton and Sansome streets.
nov29-3m

## FREDERICK KESMODEL, <br> Cutler and Surgioal Instrument Maker 817 KEARNY STREET,

Botween Juckson and Washington streets, san francisco,
$\mathrm{R}^{\text {ECEIVED }}$ a diploma at the Fair of the Mechances' Institute, Soptember, R 1888, alss in saeramento in 1881 tor California made Cutlery. The utiantiva of those atticted will HERNLA, or Rupture, or tny oue in-
terested, is called to his suew method of fitling and adapting Trusses to the terested, is called to his uew method of fitting and adapting Trusses to the
difierent cases. It is a well bnown fact that there bas as yet been uo system of Gitting T'russes. There are many different styles which have proven good in many cases, but they are all uucertuin and cannot be $r$ lied on, and in severe cases are altogether uselcss. The following are some of the advantages I claim for these Trusses a aove any and all others: First-The Pad is formed on the parts to be compressed by taking a planter cast. Secund-
Haviug a correet model, it euables me to make the Pad of any desirable material, such as horn, ityory, etc. Third-The Pad is so adjusted to the
mate spring that no movement of the body will move or displace it. There a
many other advantages. Examine and judge for yourselves. ap3 tf

## Our Mint, its Rules, Charges and Operations.

In the columns of a contemporary we observe some exceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857, while the actual loss was $\$ 266,31286$, exceeding the limit some sisty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our branch mint. The total expenditures for three years under Messrs. Birdsall \& Lott, amounted to the large sum of \$1.019,275 39. Under Mr. Hempstead, the total expenditures for four years were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100,000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of upwards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in an equally satis factory manner.
For parting silver from gold when gold
is below $300-1000$ ths. fine.
from $300-1000$ ths. to 750
 Deposits Silver Bullion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proporRefining charges of yoid 1 to 300 , 3ets. per oz. gross weight

## 301 " 500 , 7ets,

Deposits for Fine Bars
\$1 16-4-11ths cents. per standard ounce, $1 / 2$ per ct gross value of silver for making bars; also when gold is contained $1 / 2$ perct.on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 1$ 2lets. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Deposited for Dollars.
per standard oz. $1 / 2$ per e
\$I 16-4-11ths. per standard oz. $1 / 2$ per et. gross value for coining, when gald is contained, refining charge the same as in purchases.

## Deposited for Imported Bars.

\$116-4-11ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for niaking bars.
In regard to the depesits of Washoe silver, the rule will hereafter be, that the value of gold contained in the same will be paid in gold coin, and the value of silver in silver coin. The value of the silver will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, puless deposited for silver dollars, is which case a charge of $1 / 2$ per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, as most congruous with the physical aspects of the material,
but in the warrant it must be marked that so much is to be paid in gold and so nuch in silver, according to the con tents reported by the assayer. The above rules, and charges
were promulgated on Jaly 10 th, by Superintendent Robert were promul
J . Stevens.
U. S. Brance Mint, Nov. 6th, 1861.

On and after the 15 th inst., a charge varying in accordance and the character of the deposit, from half a cent to three cents per oz., gross, in addition to the general rates, and be imposed on all bullion deposited for coindge or manafacture, which will require toughening or extra refining to render it saitable for mint purposes.

Robt. J. Stevens, Superiatendent.
READ THIS!
CoAL OLL EXPLOSTON-ON SATURDAY EVEAING, WHILE MR. BREW-
 and the uil exploded. Mrs. Brewster's arms were badiy burned, as were
also the husband's bands. Howerer, he succeedded in mastering the Hames,
and preventing worse consequences.

## THEN THIS!

COMET ILLUMINATING OIL!
Manufactured expressly for Stanford Bros.
BRAND of KEROSENE
Is warranted free fram Camphene, Petroleum, or any other explosire mate
rial, and is the
Best Family Oil in the Market
2414
Nos. 121, 123 and 125 Calife-nia street.

50 lbs MARINE AND FIRE-PROOF PAINT $\mathbf{M}^{1}$ aius Ars, for Hulls and Decks of Fessels, frum ground Mineral Rock conDecks or Bottoms of snips, it is equal to a coat of stone, nnd quite cqual to Opper, no worms will ever DIRECTIONS:
For Decks of Ships, use two parts Mineral Paint, cue part White Lead, mix With Linseerl Oil.
For Bottoms of Yessels, use one part grou
Paint, mix with Coal Tar and apply it hot.
For sale by all Shp Chandlers and
For sale by all Shap Chandlers and Tradesmen, in boxes of 50 fts . each, or
by the Pacific Metallurgical Works.
25 lbs. Fire-Proof Paint, When used on Roofs, Buildings, or Fences, it is equal to covering them
with a coat of Stune, being perfectis Fire. Proof, and coasting less than any When
with a
paint. DIRECTIONS :
HOUSE :-Mix three parts Mineral Paint wlith one part white lead, thin
with Linsed oil : if a lighter color is wanted, mix less paint, more lead.
ROOF:-Five parts or Mineral Paint, one part white Lead; mor with
Linsed oil. Put ir thick on a tin Roof, as one coat when properly applied
will last three years.
S. C. BRADSHAW, Agt.,
S. C. BRADSHATV, Agt

WORKS, North Beach; Ofice, 318 California sto, San Francisco

## WRIGHT'S PICKS.



Jorv Tricirs, of Sacramento, has established himself in Sna Francisco for the manufacture of every description of lICKs, of the best material,
at reduced prices. Yirs Evze of the best iron furvished in any quantity, at
low rates Orders from the countrs promptly attended to. low rates Orders from the countrr promplly attended to. N. B.-Nione
genuive unless stamped with my pame. je20

WRIGHT, 511 Market street,
Opposite Battery, San Frabcisco

## LEWIS COFFEY \& RISDON'S

STEAM BUILER AND SHEET IRON WORKS.
Toc only exclusively Euiler Making Establishment on the Pacific Coas Owned and conducted by Practiral Boiler Makers. All orders ior New Wor
or the repairiug of Old Work, executed as ordered, and warranted as to
Old Stand, corner of Bush and Marizet Streets.

LEWIS COFFEY
SUGGESTIUNS ABOUT FOREIGN PATENTS.
American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some nther foreign countries. Four patents-American Euglish, French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are
sucn, that patents can be obtained abroad almost as easy as at home. T'be majority of a'l patents taken out by Americans in foreign countries are cbtained throngh the Mining and Scientific Press Patent Agenct. Havingestahlished agencies at all the priocipal European seats of Govern ment, we obtain patents in Great Britain, France, Belginm.
Prussia, Austria, Spain, etc., with promptness and dispatch.
Models are not required in any Enropean country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to
When parties iotend to tuk out foreign patents, engravings should not be published antil the foreign applications have been made.
Cadtion.-It bas become a somewhat common practice for gents located in Eogland to send out circulars soliciting the patronage of American inventors. We caution the latter against beeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust
their cases to the care of a competent, reliable agent at home.

While it is true of Most Euronean comntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors; in order that they may stand the test of a searching legal ex amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors sbould beware of speculators, whether in the guise of patent agents or patent brokers, as they, cannot ordinarily be trusted with valuable inventions.
A Circular containing further information, and a synopsis of the Patent Laws of various countries, will be furnished on
application to J. Silversmith, Goveroment - House, San application
Francisco.
Miners, Inventors, Agriculturalists, Capitalist and Mechavics, will find it to their advantage to subscribe for
the Mining and Scientific Press-being the only journal of that class published upon this continent. Issued every aturday at four dollars per annum.

Address, J. SILVERSMITH,
SAN FRANCISCO.

MUSIC! MUSIC !! MUSIC !!!
A. KOKLER,
mIPORTER OF EYERY DESCRIPTION OF

## Musical Instruments and Musical Merchandise.

Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.

Lighte's New Patent Insulated Iron Frame is put into all of

## Lighte \& Bradbury's OVERSTRUNG PIANOS.

$R A N K$ AS THE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KOHLER, Agent fur the Pacinic Coast.

Melodeons and Harmoniums, MASON \& HAMLIN.

Warranted superior to all others.
$\begin{array}{lll}\text { oen Send for a cutalogue and Priee lial. } & \text { A. KOKLER, Agent. }\end{array}$
CORNS AND BUNIONS REMOVED.
DR. BYRON C. KENNEDY, practical Chiropodist, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such as Corns, Bunions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Ulcers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A. м.., and 2 to 6 P. M. Having devoted six years of study to this important, bat too much neglected, braoch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my specia ity for nime years, enables me to operate skilfully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lotty position in the profession.
Foiziu is an illustrous example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kennedy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
'Che following letter, which emphatically speaks for itself, was written by Dr. W. L. Stevens of the University Coilege of Philadelphia
 ynur departure for alifornin, and wishing to inform the citizens of Philia-
delphit and also the pennle of the State of California toe esteem in which delphi- and alen the penple of the state of Californis toe esteem in which
wo bold you, aud klowiog that nothng is more essential to our success
than the encour
 muclu neglected branch or hlumanul knowledge; that you have attained to the higbest rack in your profession, several of the Faculty and other prominent
citizens of Philadelphia hating sulmmitted to your manipulation, we can re-

 will repay yon for your years of sthiy, and that you may fin
or your exertio sin the gew and growing city of the Pacific.

```
Rev Wstunton, LLD,
```

Rev W Stanton,
Rellard A Vaux,
Dr Straud, Mi D,
Mr Loumis, , D,
Clopole stevens,
Clepole Stevens, MD ,
Samuel Pancust, MD ,
Walter C Foster, MD ,


No. 718 Catharine street-this is to certify that Dr. Kennedy bes removed corns and bunions off my feet, which have annoyed me for years. He also
remover a cancer from my midule fager, which I had no use of for a perind of six months. I cordially commend him to the sulfering humanity of
Phuladelphia as a skilful surgeon. MRS. J. W. HAMMroND. Philadelphia as a skilful surgeon.
Joho Corbett, M D,
Capt McClure
Wm H Bills, Jr,
Rer Walter Wr, stanton, LLD,
Rev Walter Howard. Atc'y at Lavy,
Samuel W How
Cleopole Sterens, Pharmacentist,
Referesces:
Mrs Smith, Greene street,
Mrssmin,
Mrs W L Howard,
Mrs W L Howard, Com Mor, Third Et,
Walter 0 Foster,
Myers Davis, Market st, Myers Davis, Mérket st, above Firth,
Major Comsfock
Major Comsfock,
Mrs W. Patridge, Walnut street.

## From Dr effectually for years.

From the
From the Rev. Walter M. Thompson: This is to certity that while sojouraing in Philadelphia,
entire satisfaction.
From the Hon. Wm. M. Thorn, ex-member of the Ohin Legislature: This is to certify that I called on Dr. Kennedy to onerate on my feet: He displayed great still as a eurgenn, and I am satisfied that he has effectually cured me of those torturing pests which have annoyed mo for many years.
From Geo. F. Omerly, 637 Arch street: This is to certify that I called on
Dr. Tennedy. He has operated on my feet to my entire satifaction. au21

## Simmifit 1 mms 

A JOURNAL OF ULININ, AGRICULTURE, MANUFACTURES, SCIENCE, ART, CHEMISTRY, INVENTIONS, ETO.
DECEMBER 6, 1862.
NO. 6.

MINING AND SCIENTIFIC PRESS.
THE ONXY MINTYG, MECTINICL AND SCIENTEFIC paper on this continent.

THTRD TEAR: TOHME VI- WEW SERIESI
A ueve volume of thite ertensively circulated paper commo iced Sept, $\mathbf{1 1}$,

 This patper st devoted to the abore parposen, together with the intereste
 Information to any paper yet publisted.

The Mining Imterest?
Wult fod it of ercat value as it will cmotuin all the nows appertainung t,
Wiung, the prices and salios of Mining stock, new inveutions of Marchinery
 to the Maer.

The Inventor :
Will And it an excollent mellum for the purpase of bringing his iurention
fonto neter, of ascertainiug thu procres of luveotion in this and other rountres, und also of receriviuf any infurmation that may be necessary In obtining his patent, the prepriitor having had great experience as
Patent Agent, together with fucilitiva at Washingtoa Hat enuble him to of Patent Agent, together with
aln Patents with dispatech.

The Mechanic and Manufacturer!
Will be greatly benefitced by its perusal, as cach numbar will contann sev
 recelving the best scive fificic lourbals from all quarters, frome which w shall cor
readers.

To Chemists, Architects, Millwrights and Farmers! This Journal will be invaluable. All new liscoveries in Chemisity will be
 nol be neglected, engraviings will b be given of agricuitural implements, auc
Terms.

Five Copies for Six Months. $\mathbf{8 8}$.
Ten Copies for Six Months, $\mathbf{\$ 1 6}$.
Ten Copies for six Months, 16 :
Ten Copies for Twelve Months,
Ten Copien for Twelve Months, ${ }^{\text {S30 }}$
Fiften Copies for Twelve Honths,
Tri4.
For all clubs of Twenty and over, the yeariy subscrintion is only 3280 Names can bo sent in at difrerent times and from differ
Specimeu copies will bo sent gratis to any purt of the conntr
Room 24, (formerly) U. S. Court Bin
s.rourf Bunlding, Corner of Waslingtra and Bat

## Regariling Patents.

We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Our arrangements are such that we can have all the papers prepared,transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter into our hands; thus saving at least three months delay.

The expense to the applicant would be rather less, if the business be done by us, than if the papers, were sent to New York or Washington.
Thus by patronizing a home institution, our inventive aitizens can save both time and money.

We have prompt, intelligent and reliable agents in the city of Washingtun who attend punctually to all Patent Gusiness sent to them. We have agents, also, at London, Paris, Brussels, Hamburg, St. Petersburg, Berlip, Yienna, and other European capitals.

The Fatal, Conor.-The present war is teaching the nations many things both new and strange. Many of its lessons are great with present importance, as for instance the introducteon of irom armor for war vessels and the vastly increased weight and effectiveness of artillery now brought to bear, etc. There are other lessons which it is teaching, o misor present importance, but which to the observing mind are not to be passed over, as things of too trivial import to beheeded in this age of rapid progress. Among the lat ter lessons may be enumerated a large class of facts having a bearing upon the sanitary condition of soldiers in the field and hospital-to one of which, ouly, we would now allude, by copying from the N. Y. Journal of Commerce, the following paragraph which appears in that paper uuder the head.o "The Fatal Color."
In this age of Minie rifles, telescopic sights and sharpshooters, it will not do for our soldiers to wear red. Of all the colors that is the very best to "draw a bead" un. An aim which wight be uncertain at a preen, blue gray or neutral tint, becomes fearfully exact when it is brought to bear on a flaming red target. The fate of those two fine, daring reginents, the New York 5th and the Brooklyn 14th, of which red is the distinctive color, proves this. Fach of these regiments is reported to have lost far more than its proportion
of men in every engagement. About three fourths of the causalities among them are said to be in the red-troussered legs. After the battles of South Mountain and Antietaio the Brooklyn 14th, mustered less than fifty men. If the Zouaves could show a larger number, that is because they have been more recently recruited. the brave men of these two regiments would probably vote unanimously to retain he fatal uniform in which they have won their reputation But their safety, and that of all other regiments of the red order, denands that red trousers, red coats, red shirts, and red caps, should not be allowed on the field of battle.

Interesting Iron Experiment.-A eimple illustration serves to show a very important, fact connected with iron, viz : extreme elasticity, which yields to a force almost incredibly feeble.
Make a hoop of one inch square bar-iton. about the size of the brim of a man's hat; let the inside of the hoop be made quite smooth and true. On examiniag such a hoop, it would appear that the power even of a horse could in no way alter its shape or form, provided the strain be put to it fairly and equably. Now make a rod of iron of the thickness of a lead pencil, that shall exactly fit the diameter of the hoop, so that, when placed in the hoop it will not fall out unless the hoop be altered in shape. If, acting in a similar way, we take a child's wooden hoop with a stick across it in the centre, and then press it at the sides opposite to that of the cross stick, the hoop swill assume an oval shape, and, of cuurge, the cross stick will fall out. Just so does the yron hoop degcribid, act; when any one presses it, the iron rod falls ont, showing clearly the elasticity of the iron. The hoop will become oval shaped with a very little pressure not greater than that which can be exerted by a young girl.
A Whisting Oil Wrll-A novel incident, says the Philadelphia Ledger, occurred on the McClintock Farm Oil Creek, recently. That portion of the tubing of the Van Slyke well which runs into the receiving tanks from the well, was removed in order to make some repairs, learing the conductor pipe still in the well. Next moraing the inhabiants of tbat region were startled by tho sound of a gigan tic steam whistle, and found that it proceeded from this well. The gas forced up through the pipe had probably met with some obstruction, which caused it to perform in this way. The scream of this whistle was tremendous, and

The Great Theatre of Ephesus.-The great theatre of Ephesus has recently been examined and measured. It must have been the largest ever erected. Its diameter was 660 feet -40 feet more than the major axis of the Coliseum. Allowing 15 inches for each person. it would accommodate 56,700 spectators. Irury Lane Theatre (London) will contain only 3,200, and old Convent Garden held 2,800. Tbis edifice was the scene of one of Appolonius' miracles; it is memorable for the uproar described in Acts XIX., when the Ephesians accused Paul and the Christians in this building. To thie edifice the writer to the Corinthians alluded, probably, when he said: "If, after the manner of men, I have fought beasts at Ephesus, what advantageth me?"
Stability of Water.-We cannot any longer sustain the ancient faith in the stability of the "terra furma" as core tracted with the ever changing natnre of the sea. Recent discoveries have proved, on the contrary, that the land changee and the waters are stable. The ocean waintains always the same level ; but, as on the great continents, table lands rise prairies sink, so does the bottom of the sea rise and fall In the South Sea this takes place alternately, at sta:ed times. To such sinking portions of our earth belongs among others, New Holland. So far from being a young land, it ia on the contrary, with its strange flo a, 80 unlike that of the rest of the world, and its odd and marvelous animals, an aged dying island, which the ocean is slowly burying inch by inch.-Stray leaves from the book of Nature

Falling from Alort.-The New York Times, in an artiole on seamen falling from aloft, remarks :
We doubt if any one is aware of the number of seamen in our merchant service, whose lives are annually sacrificed in this way. It is a brief record and attracts no attention, which appears in the marine reports every morning-that on such a day, a seaman fell from the jib boom or the top-sail yard of the fine packet ship Blowhard, and was lost. Yet we venture to say that not less than a thousand seamen fall from aloft on A mer can ships every year, while in the discharge of their duty, and perish, unknelled, uncoffined, and uaknown.
Volcano near Rome.-A Roman journal states that something like an iucipient volcano has made its appearance near the Civita Techia railway, about two leagues from Rome, A committee of Engineers and Geologists have been sent to examine the eruptions of smoke and sulphurous-exhalations have been observed. In their report they state that the seat of fire is on the right hand of the railway, at a place called Monte delle Preche. For the space of two hundred square metres the ground is so hot that no one can stand on it long.

Conflagrations in the Pennsytitania Oil Regions.Numerous fierce and destructive conflagrations have from time to time occured among the oil wells of Pennsylvania the latest of which is thus noticed in a local paper dated, Oil City, Pa., Oct. 8th, I862.
A terrific fire is raging on Oil Creek, on the Blood \& Tarr farms. The oil wells and several refineries are in flames, and a large amount of oil has been consumed. The flames extend over half a mile. The loss is estmated at from $\$ 100,000$ to $\$ 200,000$. The flowing wells are still on fire. 30,000 bbls. of oil have been destroyed, besides a great many buildings.
Poisonous Green Paper.-Dangeious green paper hangings, stained with arsenical color may be recognized by a very sure and easy test, common spirits of hartshorn, or ammonia. On application of this, the beautiful but dangerous green becomes blue. The danger from these paper hangings is much greater than is commonly supposed. Deaihs are constantly being recorded, now that attention has been called to $\mathrm{it}^{2}$ which are clearly due to arsenical poisoning from its source.

## Lubricating Fluid.

Ferv subjects of an apparently simple nature are of more commercial importance than the discovery of some suitable and reliable material for the proper Jubrication of machinery and some self-acting machine or instrument which shall properly feed such portions of machinery, as from their condition, require a regular and constant supply of lubricating fluid.With regard to the fluid to be used, many preparations simple and compounded, patent and otherwise, have been offered to the public.
Mr. F. W. Perrott of Walworth, England, has recently patented, in that country, an invention which, after much experience, he thinks appears to meet the end desired a little nearer than any thing else yet produced. He uses a mineral preparation which cousists of micaceous iron ore, in combination by preference with oleaginous and fatty matters. Micaceous ore is a species of hematite, found in variou parts of the world. The propertions he uses are for one sort-ore 7 parts, oil and tallow combined, I part. The tallow is first boiled, and then the ore, which must have been carefully washed to free it from grit, is stirred in and mixed with the tallow, to which the oil is added. Another sort is composed of ore, $6 \frac{1}{4}$ parts ; tallow, $1 / 4$ part; oil, $1 / 2$ part : and a third kind-ore, 5 parts; tallow, $1 / 8$ part ; oil, $7 / 8$ part. The first is strong, the second medium, and the third a thinner and finer quality.
Mr. Leroy, of Paris, France, another eminent practical machinest, recommends a composition made up as follows: Tallow 252 parts; good lubricativg oil, 333 parts; soda, 14 parts ; potash, 12 parts ; and water, 389 parts. The potash is first dissolved in the water, the soda is then introduced, and, finally, the oil and tallow are kneeded with it.

Messrs. Huck \& Lambert, of this city, also make a very superior article of lubricating fluid, designed more particularly for heavy bearings-such as hevy teams, etc. It is produced by a chemical combination of suitable oily substance, purified by distillation, and carefully freed from all resinous, or pitchy matter which tends to gumming. The chief peculiarity of this article is its great consistencynot being attended by any ordinary exposure to the sun or any moderate artificial heat-its liquifying point being 200 degrees. Its tendency is to adhere closely to the axle and keep it cool, in a hot sun, where other materials would become heated and run or wear off.

The obstacles to good lubrication-hot bearings, the gumming of different oils, continual waste and its necessary lack of cleanliness, the constant attention required, great cost, and others which might be enumerated are all involved in the mode of lubrication generally employed. The gumming is as often occasioned by an excess of quantity, as by the impurity or inappropriateness of the material used. In order to obviate the excess of quantity and ensure a regular supply, an ingenious mechanic iu England has recently invented a simple instrument which may be attached to almost any machinery, and which is described in the London Mining Journal as follows:-

A simple tin box contains the lubricating matter, of which we have so many descriptions for all sorts of purposes. The box is furaished with an axle ruaning its whole length, supplied with as many cups as there may be journals or bearings to lubricate. At one end is fixed a small cog wheel, which is caused to rotate by a small crab-pin resting against an eccentric. The quantity contained by the cups as they rotate can be determined by a small screw inserted in each, and may vary from 1 drop to 50 , supplied to the lubricating tubes, and, once the box filled with oil, no further attention is necessary for from 12 to 24 hours.

The Editor of the Journal adds-
No waste can accrue, as all the oil necessary for lubrication being used up, and no more than is necessary supplied,
there is no further waste that must accrue by the use of the best known lubricators, after the lubricating' properties have been extracted and made use of. Seeing that by the simple nature of the construction of the instrument it will continue to work while the machinery is in motion, it will suffice to refill the cans every 12,24 , or 48 hours. according to the size of the instrument. It requires no unnecessary attention or constant labor. Any kind of oil may be used, an essential called Feint's oil has been for some months in use by the inventor. This instrument has not yet been brought into public notice, and it is only at the instigation of several friends that the inventor, Mr. Swan, has been induced to register his instrument, and allow the public the opportunity of profiting by his ingenuity. That the cause of the gumming of
various oils is difficult to solve, and depends, no doubt, on a peculiar quality in such oils, the exact composition of which is not yet determined, there can be no question; but that a rery great deal dejends on the manner in which oil is supplied to bearings, or journal-, requiring lubrication there can likewise be no question. We ourselves have seen hot bearings cooled by the incessant application of small quantities of resin oil, generally supposed to be peculiarly subject to the quality called gumming, and certainly not considered a good lubricator. But from what we haveseen at Messrs. Halg and Co.'s distillery, Hammersmith, and which every one in terested in this matter may also see, little more remains to perfect the present obstacless to lubrication.

Trial of a Steam Pump-A trial of Capt. C. H. Harrison's Ecceutric Pumps took place on Broadway wharf, in this city, on Friday last. The machine continued in operation for some hours, and its performance was witnessed by quite a number of scientific and curious spectators, all of whom pronounced it a complete success. A very much accelerated speed may be given to the pump over that applied at the late trial ; and, of course, the volume of water raised will be in proportion to the speed attained. It is a light pump, and the elevation to which a column of water can be raised is limited, only by the force of the driving power, and the strength of the pipes. This pump bas been arranged in three sizes; the first or smallest of which, at ordinary work, will raise seventy-five gallons per minute, the next larger size will raise five hundred in the same time, and the third or largest about three thousand gallons. Of course these amounts may be considerably increased, when occasion requires-provided the requisite power be applied. For mining purposes, where large quautities of water are to be raised from great depths, this pump seems to be peculiarly calculated, as it is simple in construction, compact, light, and easy of transportation.
From a return made to the Surveyor General of the State by the Assessor of the City and County of San Franciscn, we compile the following Statistics of the Vegetable and Fruit products of this County for the past Fiscal year:

| Apple | Trees, 4679, | Peach | Trees, 428, |
| :---: | :---: | :---: | :---: |
| Pear | 2771, | Plum | 196, |
| Nectarine | 32, | Cherry | 401, |
| Quince | 71, | Apricot | 50, |
| Gooseb'y | Bushes, 1701 , | Strawb'y | Vines, 2589, |
| Raspberry | 3390 , | Grape | 107, |

and the following numbers of Live Stock and Poultry during the same time :-


For a County that is nearly all brick and mortar this is a good showing.
Ochre.-It is almost impossible to keep pace with the new mineral developments of the Pacific Coast. The deposit of ochre, recently found at Marines, opposite Benecia, seems to be attracting some attention and may yet prove a valuable "find." The Cail, of recent date, says that a quantily of this mineral was lately placed in the hands of Mr. G. A. Lloyd, a master painter, of this city, who at once pronounced the article fully as good as the earth paint which is exported so largely from Sicily. Without trasting, however, to a superficial examination of that kind, he determined to thoroughly test the packages. The rock (for it is a species of soft rock) was ground up and Lloyd mixed it in the same manner that painters mix the terva de sienna. Slabs were procured and a very fine specimen of oak and rosewood graining was produced.
OPARR Rock- The float rock, in fact the original croppings taken from the famous Ophir mine, says the Virginia City Union, $22 d$ inst., are now being hauled away for crushing at the various mills. Mest of that large pile of rock, at first thrown out as worthless, has been crushed and found to pay, and now the croppings are to take their tura. The day is not far distant when much of the rock from other claims. now considered valueless, will be worked aud made to furnish its proportion of our daly shipments of bullion. The Ophir, we see, has commenced two new dump piles to receipe, we suppose, the first and second class ores, while the third class will probably contanue to be throwa upon the old and origi-
nal dump.

The California public is said to be a great patron of the arts and sciences, which in a measure we will rerify and attest as being the fact; but that it is pissessed of a proper judgment or knowledge of the real merit of an artist is far from the truth. We have been visited by many renowned in their profession abroad, and these have left our shores never to return. And ágain we have been favored with lesser talent, and because extensive posters puffs, and long-winded editorials, commendatory of such upstarts, heralded them, these have remained and amassed fortunes from a deluded people. Our public is decidedly a peculiar one, particularly for taste and style, for instance : a new nigger-minstrel is announced, and performs before the elite in this city; the next day the $A \not H a$ will come out with a criticism on his debut, as though he were as great as Formes, or any of the celebrated 'Tenors, and the miustrel goes on rejoicing night after night. A few who claim to be versed in music will go to see the opera, we will call these the elite of our city, and include therein the musical critics of the various daily journals, who like claqueurs, applaud before a melody or reci. tation is half finished, thus betraying a vast amount of stupidity and ignorance, besides annoying those sitting beside them. Opera after opera is announced and performed, and no matter how badly put upon the stage or executed, the same commendatory notices appear, and the "able management" (?) eulogized for the great enterprise displayed.
The opera of Macbeth has been twice performed, and we confess that since we listened to it in Havanna years ago by a Ialented Italian Troupe, the several leading artists failed not in ringing applause from the writer. Our pity and disgust reached its highest point, when, though informed by bills, etc., that new costumes, scenery, etc., hod been added for the occasion, those improvements failed to appear, while several scenes most essential to the work, were omitted, to say nothing of being seated in that dense little box of a melodeon, where the best efforts of arists, either vocal or instrumental, seem not to blend, but rather form a racket of musical and boisterous concord. That "able management"(?) ever ready to cater to the taste of our people, seems to be up with the requirements of a well appointed orchestra. One violin has to do all the tall "fiddling" iu that sublimest work of Verdi !-entitled Macbeth. The dollar paid we regreted, as did many others. We advise the Bianchi's, if they propose ta bring out more new operas, to take the Metropolitan, or some other theater, and appoint an orchestra worthy for the task ; the opera can then be successful. When the "able management" bandies for a tew paltry dollars with musicians by reducing their wages and similar shortcomings, no success can attend their efforts.
S.

Rice on Parer.-It appears from a recent report of a Committee of the Nevada. Territorial Legislature, that from the 29th day of November, 1861, to the 21st day of October, 1862-a period of less than eleven months-one hundred and eighty mining incorporations were formed nnder the general laws of the state of California to operate on mining interests within the territory of Nevada. The capital stock of these companies foots up to the round number of seventy-eight millions of dollars! We have not the means at hand of giving the amount of incorporated capital, organized in that Territory prior to the first above mentioned date, but presnme it cannot fall but little if any short of the amount since organized-which would give a total aggregate of at least $\$ 150,000,000$, a pretty good capital for a new Territory to begin business with.
Talc.-The editor of the Tervitorial Enterprise has seen some very fine specimens of talc obtained from an extensive deposit of this mineral somewhere in the vicinity of Pyramid Lake. This mineral is also found in great abundance near the Humbolt mines, where it is said that it may be obtained in aheets, four feet square! and in unlimited quantities. It has been suggested that this mineral might make an excellent and durable material for roofing. We can see no reason why it might not be altogether preferable to slate for such a purpose. The experiment is certainly worth a trial, and when we get a railroad from this city to the Eastern Slope, if the roofing experiment is found to succeed, it wonld afford a large amount of return business for the road, and furnish the city of San Francisco with a most elegant, and durable fire proof material for roofing and siding too.

## TO Minisg companies.

We earnestly solicit from mining companies and associations the following blank statement, filled according to the data hereby accompanying. The purpose for which we seek this information is iuportant to every citizen and stockhold er on this coast; it would also be prodnctive of beneficial results-i. e., inducing capitalists to invest in our mining operations, thereby infusing new life and vigor into business gene ally in our States and Territories. Little, if anything, is known of our metallic wealeh in Europe or the Eastern States, hence we desire as much of the blank filled by you as may be interesting and instructive to the people of this State and those interested abroad.

Wo know of no mining district in Europe or America where this kind of infurmation is not willingly rendered by parties uwning property of this nature; and we know of no better medium for making public the richness of our mines. Wir shall send blank; to mine and mill proprietors for every quarter, and will gladly publish the contente for the iuformation of the community:

| Titlo of tompany and butnee of omecers for the your. |  | Am't if stock \& value per share. | Whea Incorpornted |
| :---: | :---: | :---: | :---: |
| Lueatiun. | Average nssays of ure. | Process emplnyed and vumber of stamps. | Geberal remarka |

PALMER, HANSCOMB \& $\mathrm{CO}_{;}$;
Golden State Foundry and Machine Works,
First Street, near Market, san Francisco, Cal.
 Having the romet complete arrangements and appointments for finishong San Francisco, November 29, 1862

## Attention! Attention!

 A ly been surveyed and plotted out mith ints, wheh are, inow offered for
 sey, "und derives its anme from the fact that the Directors of the Univer-


 Javesturents in Real Estatece, it is well koown, have paid ns largely as any othur, nhd hinumane ugatint rist of depreciation in value is secured by the
sure und rapid increase of our population. sure and rapid increase of our population.
Invest in Rual Es ate, und you will find it moro profitable than investing Invest in Real Es ate, and you will find it moro prontable than investing
in wild-ctt mining stock, or loaniug money that may be paid iu deprecialed currescy.
The prices for lots in the above tract w'll remas uniform until after the holidays- that in, without interest. The title to the land is perfect.
For fucther For further particulars apply to
HARVEX S. BROWN,
Lithoerapbic Mape No. 19 Naglee's Building
$\begin{array}{r}\text { nou } 136 \mathrm{mo} \\ \hline\end{array}$

## DEETKEN'S

Chemical and Metallurgical Works,
ON SAN BRUNO ROAD, ISLAIS CREEK, say fbancisco.

C Lear goln bearing solphurets worked at \$20 per ton.
 nair Apnaraths for separating Sulphurets get up by experienced hauls at
a cosi of \&50 to $\$ 100$, if destred by mill owners. No power nor clean waa cusi of
ter required for the purposes.

JULIUS SILVERSMITH,

## COMIMSSIONER FOR NEVADA TERRITORY,

OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington sts., Room 23, up stairs
W in would respectrolly solict from those who have bus
 Io in an mat ors requiring he whicial action of a Com missineer-such as
the drawing up of afidavits, acknowledgments, the taking of testimony. ele.

## W. T. \& J, GARRATT,

 Market sts. opp. Orie
SAN FRANCISCO.
Babect metal castings fire manges, Force and lift pumps, BChurch and Steamboat Bells, Tavorn and Hand Bells and Gonge, Hose
 furnished with fittings, \&C.; COUPLING JOINTS OF ALL silkgs. Manufacturers of "Garratt's Patent Improved Journal Metal.

## LEANDER RANSOM,

CIVIL ENGINEER AND SURVEYOR,
Having beeu connected with the public surveys of the State of Olio for 20 years, and the pullic works of the State of California for 7 years.
also, state locating agent.
Aud as such linving the sale of 600,000 ACRES OF THE STATE SCHOOL LANDS, At the low price of 81,25 per Acre. Pen Terms-Tweuty per cent in eash, and the balance on a credit of
sereral yetrs. OfFICE: Ficeond floor of Express Building, N. E. corver of Montgomery
and Culfornias streets. and Cultionnia. strects.
oc7 3 m

## A GENCY FOR PATENTS.- The undarsigned having been long es

 Dubuts for attending to tho Ayterests of inventors at tho Patent onice in Washington, offer their services for the securing of Cavents and Patents also, will atten to the sales of Patent Rights, and to all matters counected with pateated inveations.
## WETHERED \& TIFFANY,

Office, 410 Montgomery stroet.
CHARLES R. BOND, (Iate Cily and County Assebsor.I REALESTATEAGENT 410 Montgomery strect, San Francisco.
REAL ESTATE PURCHASED AND SOLD, LOANS NEGOTIATED
Washoe Stock Exchange, N. E. cor, Montgomery and Merchantsts., SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and sell Washoe, Esmeralda and other Mining Stocks and Securities. sep20

THEODOR KALLENBERG,
MAKER OF MODELS for Inventors,
Machines, mathematical Optical and Philosophical Justruments Stamps. Scales, Weights, otc.; Stcel Stumps, Dles and Die Sinking, Embossing Stamps.
(No. 4 Sansome street, corner Market, San Francisco.n)

## DEVOE \& CO.'S <br> STFAM ENGINE

MACHINE WORKS,

## corner markicot \& Fremont strecta,

$\mathbf{A}_{\text {Irous, Flour Mills, }}^{\text {ILL }}$ Qinnrtz Mills, etc., etc., made to order and
 Batting
$A^{\text {GRICult }}$
$\mathbf{A}^{\text {GRicultural machinery of all hiods made and repaired. }}$
Thas Dunlicate parts of Threshing and Reaping Machines and Threshing Teeth made to order, on the most reasonable terms.
Steam Engines and Boniers ennstantly on hand, Steam Engines and Boniers ennstantly on hand, and for sale
cheav. Serew-Cutting Turning Lathes for sale. cheaf. Serew-Cutting Turning Lathes for sale.
jels

DEVOE \& CO .

## Lates' Improvemint

In LADIES' BUCKLES.
M ${ }^{\text {R. retchel respctfuliy announces to the ladies of this }}$ 1 State, as well as to Jewelers and denlers in Jewelry, that he bas made mportant improvements in BCCKLEs, which surpass any and all hereto-
ore made. Their simplicity, commodiounness, and benuty render then the most useful as well as ornamental trinkers.
Orders from the country respectully solicited. For particulars call at o address, FREDERIK, REICHEL,

Manufacturing Jeweler,
620 Merchant elreet, San Francisco
sep11
THE.
NEW ENGLAND SEWING MACHINE for $\$ 25$ ! ty, it has no rival. It is made with special referencess to the wadts of a family, and any one with the aid of the printed directinos can learn to work it
successfully in a few hours. It will work from leather to the finest cambrie successfuly in a few hours. It will work from leather to the tinest cambric
without the change of needie, tension, or feed. It gives the best salisfaction
whe whituut the change of needie, teasion, or feed. It gives the best salisfaction
where it is sold, and all who ure or examine pronouncs it botter adapted to
meat where the Wants of every family thav any other maciline now offered to the
mublic. Guage and bemmer attached. poblic. Guage and hemmer aitachod.
Every machine warranted and kant
Every machine warranted, and kent in order free of charge. This is the
only cheap machine that will do all kinds of family serving only cheap machine that will do all kinds of family seving.
STEWART \& SHEAR Genor
кep11 R, General Agents,
No. 60 Secoud street.


THE FOLLOWING GOODS TO BE FOUND AT
H. D. PEARCE'S:

Gents' Heavy Gold Cases, different patterns;
Ladies' Heary Gold Cases, do do;
Gcld Telescopic Pen and Pencil Case:
Extension Screw, Heary Silver, for Gents';
Extension Screw, Feavy Silver, for Ladies;
Silver Extension Cases ;
Silver Telescopic Cases;
Serew, Silver and Ebony Desk Holders ;
Slide Silver and Ebony Desk Holders;
Reverse Silver and Ebony Desk Holders;
Pen Holders, Silver and Ehnny;
Pen Holders, Gold and Ebony
Pen Holders, Gold and Ivory;
India Rubber Propelling Pen and Pencil Cases
India Rubber Propelling Pencils, short.
Ha). All the ubove gonds are made to order and warennted; will be sold cheup for eash. There are some thirty diferent patterns, leaving an oppor unily for partles to select and be suited.
A cheaper class of Pens direct frota New York, at wholesale only.
Gold Pens constantly on hand. Gold Peus repaired.
an7
H. D. PEARCE,
606 Montgomery street, between Clay and Merchant, up stairs
GREAT REDUCTION
in prices.
STANFORD BROTHERS,
121, 123 and 125 California Street;
KEEP THE LARGEST STOCK OF ALL KINDS
Lamp Stock,
And will sell cheaper than any House the this Etate.
LAMPS, $\quad$ CHIMNEYS.
CAMPBENE,
BURNING FLUID,
ALCOHOL,
TURPENTINE,
COAL OLE,
KEROSEINE OLL COMET ILLUMINATING OHL.
SPERM OKL, LARD OIL,

MACHINERY OIL,
RAPE SEED OIL,
china nut ol
LINSEED OIL, Raw and Boiled,
POLAR OIL,
SHARK'S OLL, NEATSFOOT OIL TANNER'S OL, \&c., sec., so.

Our custoniers in particular, and the country trade generally, are requeated To ascerpriaiu our prives before purchasing from traveling agents, as we will
ayll at less rates than they can afford to.

PHILADELPHIA BREWERY
Second street, corner of Folsom, San Franciscó, Cal.

## Helscher, \& Wieland Proprietors.

Thankrul for past patrovago to a discriminating public, we beg leave 1 to apprise at the same moment our many friends and patrnas, that the
 endeavor tu continue in frirnishing our numerous patrons with the best ar-
ticle of "B Bier." We shall strive to perpetunte the good reputation for promptitude aud the faithful execution ot orders as heretofore, and thereby wcrense our custom

## FULTON FOUNDRY AND IRON WORKS.

## HINCKLEX \& CO., MANUFACTURERS OF STEAM HNGINES,

Quartz, Flour and Saw Mills; Cast Iron Fronts for Buildings,
Mining Pumps, and all hinds of Machinery,
Amalgamators, Etc., Etc.
47 \& 49 First Street,
BET. MARKET AND MISSION, SAN FRȦCISCO
AIL, kinds of Iron and Brass Castiags furnished at short notice. Every tyle of finishing to Iron when cast. Repairing to Machinery neatly dono D. B FINCKIEY WM

## SQUARZA'S PUNCH.

## home manuenctory.

No. 44 Leidesdorfigsile AND rexsir,
Nacramento st, near
S. ROsENBAUM \& CO. Importers of pure Havana Cigars. Tobaceo,
A. etc., corner Clay and Battery, 25 and 27 Codar street, New Yort.

## MINING ANDSCIENTIFICPRE゙S心

## 

W．B．EWER，Editor．

## SATURDAY

DECEMBER 6， 1862
The MINING AND SCIEVTIFIC PREAS is published at the Federal Building，Room 24，corner of Battery and Wushangton streets san Fran
cisco，Cal．at Fifty Cests per month，or \＄t per auuum，in advance．Ad cisco，Cal．at FIfTY Cents per month，or \＄1 per aunum，in advance．Ad
vertisements，Fifty Cents per line．A liberal diecount made to quarterly advertisers．

## Engravings，Electrotypes，etc

We execute at this Office Engravings and liustrations on wood，stone，
copper，steel，etc．Stercortyng and Electropsinf，Jesigna of every des－ copper，steel，etc．Stereotrying and Electropyng，Jesigna of every des
cription－Buildings，sketches of Towns，Machiuery，Stabjp Dies，Neals for Plain or Colured Printing．

JOB WORK－executed with dispatch ac the cheapest rates．
Patrons will remember that when wo execute engravings we will iuser then free of charge in the Mining And Scienimic Prass，thus givilig the ad
vatage of a Wine Circulation thronghout tha Pacific Coast in the best ad vertising Medium to be found in the country．

Practical Science Indispensible to National Progrcss
＂Science and information are tbe joy and justification of mankind．They form the springs of a nation＇s wealth，be－ ing often，indeed，substitutes for those material riches which nature has，in many cases，distributed with so partial a haud．－Humboldl．
A more important trath was never penned by the great German philosopher than the one above quoted．It is a truth which should be converted into a living faith in the minds of all who have a leart interest in the material de－ velopment and national progress of the country of their birth，or of that land which they call＂home．＂It is one of the great faults of our politieal system that，with us，Gov－ ernment seems to lose all sight of its obligations to provide cheap and unirersal education after it has carried the child through a course of primary instruction iu our common schools．With the exception of a little stinted assistance， now and then，to some Colegiate Institution，where the dead and dying languages，and the mere theories of seience are taught to a linited extent，government，in this country， both state and national，seems to conclude that it has ful－ filled its educational duties to its adult population．There is not a leading state in Europe which is oot far in advance of this people in the practical acknowledgment of the im－ portance of providing intellectual training for those entrus－ ted with the great mercantile，mechanical and manufactur ing interests of their several nationalities．The evidence of this may be found in the large endo wments and appropria－ tions constantly being made by for eiga governments in sup－ port of institutions and publications connected with indus－ trial science．

There never was a period when a union of skill and sci－ ence was so much needed by the nations of the earth as at this present time－tbere never was a people to whose na－ tional advancement universal practical science would add such an impetus as to our own，and among our state or－ ganizations not one other of all the number would derive a tithe of the benefits which wou＇d accrue to Califoroia from a universal diffusion of such information as would combine science with its practical application to the development of the varied resources，mineral and agricultural，of our state． It is true and＂pity＇tis＇tis true＂＇that practical science has not yet reached its just position，in public esteem，with any people．It was a knowledge of this fact that brought out the happy expression already quoted from Humboldt，who again writes－＂An equal appreciation of all parts of knowl－ edge，is an especial requirement of the present epoch，in which the material wealth and increasing prosperity of na－ tions are in a great measure based on a more enlightened employment of uatural products and forces．＂
The time has been when a nation＇s prosperity was founded almost exclusively upon local advantages ir accidental com－ binations．In the incipient progress of England＇s greatness the occurrence of coal and iron within her burders，to an extent nowhere else known at the time，served as a founda－ tin for a progress in manufacturing art which，at one pe－ riod，promised to make and continue her as the overshad－ owing power of the earth．At that time immense tracts of fertile land，and a genial atmosphere pointed out this coun－ try as the future granary and staple producer of the world， while the still more genial climes of France and Italy seem－ ed to give those countries the exclusive coatrol of the pro－ duction of silks and wines．

Had not the struggles of science in the 16th century suc－
ceeded in freeing itself from the trammels of an ignorance that would have laughed Columbus out of the effort which gave to Europe a new world，and deprived Gallileo of his liberty for presuming to assert that the earth revolved on its axis，each of these countrirs，even to this day and a cen－ trey bence，might have continutd in the dull routine，which， according to the theory of the day，nature designed them．
But science，in its progress and practical adaptation to industrial pursuits，has of late produced a wonderful trans－ ition in haman conceptions，and is now teaching the bations the important lesson that they must acquire and maintain their respective levels by the force of their intellectual devel－ opments，instead of resting in security upon the natural de－ velopments of soil and climate．It has now come to the knowledge of mankind that that people which is most lib－ eral and earnest in the intellectua！development of its work－ ing and produc g g classes－of its artizans and mechanies－ is destined to override all local advantages and leave far in the rear，in material progress，all other peoples，who attach less importance to the intellectual development of their adult population．Even a superabundance of capital，or the possession of inexhaustible mines of the precious met－ als，if unaccompanied with intell ctual training，will be with－ out avail to save a people from becoming laggards in the modern march of national progress．
Neither the highest order of＂common sense＂nor the most abuudant gift of＂Yankee shrewdness＂will avail a people unless her＂sons of industry＂become the earnest disciples of practical science．Practice and scieuce must henceforth go hand in hand，or a general emigration of the former will soon leave the laggard people who reject the union in a slough of national despondency．
We have said enough，if，indeed，it were neccessary that angthing should be said to a waken our newly elect d legis－ lators，and all others having influence or power，to the im－ portance－to the indispensable necessity－that the people of our country at large and those of this state in＂particular should have the meaus placed before them for the acquire－ ment of practical，scientific iuformation－each one hav－ ing a reference to his own particular calling in life，whatever he may have chosen．The miner needs his＂Schonl of Mines ；＂the farmer his＂Agricultural College；＂the mer－ chant his＂Mercantile Academy；＂the mechanic and arti－ zau each need their appropriate fountain heads of in－ struction，and those who go down upon the sea in ships， who carry our manifold products to the ends of the earth， and defend our flag upon the highrway of wations，need also their＂Schools of Navigation．＂As surely as night follows day，so surely，unless our people demand and secure addi－ tional facilities for practical science to those which now ex－ ist，will our people fall，early，into the sere and yellow leaf of decay．Nothing else，as we have already said，can save us in the modern march of material progress wherein other na－ tious are endeavoring to outstrip ns by the superior intel lectual advantages，which they are placing within the reach of their peoples．The terrible dangers and awful forebod－ ings which now haug over our national existence，betoken less real danger to the Republic than does the apathy and indiference manifested by our people with regard to the sub－ ject which we have been considering，and which we propose to still further discuss in future numbers of the Press．

## THE GRASS VALLET（NEVADA CO．）SILVER MINES

During our recent trip to Grass Falley，we paid a visit to what are now pretty ext．nsively known，throughout the state， as the＂Grass Valley Silver Mines．＂We were accompan ied on the visit by our excellent friend Phil．Roberts，one of the proprietors，and one who is，if not the first discover－ er ，at least the chief pioneer of these mines，and one who has done as much or more than any other person toward their development．The mines are located about six miles， almost due East from the town，in a very wild，romantic re－ gion，and near the banks of Greenhorn Creek，from which stream the first company located took its name．

The mine is located，according to the best of our recol－ lection－for we did not notice particularly at the time of our visit－in a region of talcose slate．The direction is nearly N．W．and S．E．，dipping east，very winding，but ea－ sily traced，by surface croppings，about 3000 feet．The on－ ly companies which have yet struck the vein are the Green

Horn， 1200 feet，and thence，runuing south，the Central， 600 feet and the Monror， 1000 feet．The－next company， south，now kuown as the Potosi，but which，we understand， intends to chanye its name，have run a tunnel into the hill about 150 feet，but have not as yet struck the lead．
Below this company we understand that a company，known as the Buffalo Co．，have located a set of claims，and com－ menced work．We learn that they have already struck a beavy ledge，with good indications，which is thought to be a continuation of the Munroe Lead．
T＇he Monroe company is the only one which has been in－ corporated．They have ten or twelve men now at work，get－ ting our ore，under the direction of Mr．D．C．Odell，and are workiog fr m two shafts，and also running a tunnel，com－ mencing at the lower extremity of their ground．This tun－ nel will drain the upper portion of the mine fully 150 feet． This compauy was the first to secure a working prospect for the mine．One of the proprieters，Mr．（木．O．King，sent down some 1900 lbs ．of croppings，in July last，which were reduced by Bradshaw \＆Co．of this city，who returned a re－ sult of $\$ 42$ in gold and $\$ 53$ in silver．The rock crushed at their mill，hereafter mentioned，was taken from near the same locality．About 100 feet from their lower line a cross vein appears，which presents quite as favorable an aspect as the true vein，which latter does not appear to have been at all disturbed by this apparent intruder．The company has leased a mill which will be more fully alluded to at the close of this article，and when we were there had about 50 tons of rock on its platform．

On the Central company，nothing was doing so far as we were informed．A tunnel was driven up to the vein a short time since，from a neighboring ravine．We are not advised as to what their intentions are for the present season；but they will，in all probability，soon undertake active operatiuns， as their mine，ly．ng between two others known to be rich， must，beyond a doubr，be raluable．

The Green Horn company，which is made up chiefly of Grass Valley men，was the first locuted and has thus far proved the richest of the three，gold being its chief return． It is from this ground that all the gold specimens，which first brought this miue into special notice，were taken．Two pockets have been struck，the first in September，which yielded about $\$ 3000$ in specimens，the last in November， yielding about $\$ 400$ ．This mine is also well located for work ing．About 120 tons of rock have been taken out and a very comfortable board cabin built during the past two or three months，all at an expense of abont $\$ 350$ ．＂PuL＂how－ ever，has a pecaltar way of making a little money perform a large amount of work．The mine，when we were on the ground，was worked by an open catabout 40 feet in length on the line of the vein，which is very heavy，averaging，through－ out this cut about four feet in th ickne：s．Since that time a short tunnel has been co mmenced，from which rock will be taken during the wiater．When the Monroe company＇s tun－ nel shall have been driven up to the s uth line of the Green Horn claims it will drain their present workings to a depth of about 300 feet，and the upper portion of their grcund fully 600 feet．
Several other＂exteusions，＂than the ones named，have been staked off and recorded－among them we believe are the Green Horn，No．2，and the Chicago．Of course the excite－ ment connected with the successful opeaing of this mine has attracted to the neighborhood large numbers of prospect－ ers，by whom＂all the region round about＂will be thorough－ ly prospected，and perhaps other equally rich or richer leads will soon be developed．The neighborhood of these mines is an exceedingly rough one－very forbidding in appearance to the prospector，well wooded，and one which until the present time has been bat little examined．
the reducting mul and its machinery．
Subsequently to our trip to the mives we paid a visit to the Monroe Co．＇s mill，accompanied by one of its proprie－ tors，Mr．G．C．King．by whom we were introduced to Mr． S．F．Clouser，the gentlemanly superintendent．The mill is located in Boston Ravine，about balf a mile east of the main town of Grass Valley，and has long been well known there－ about as the Empire Mill．The mill has been leased for a short term with the privilege of purchasing on extrenely fa－ vorable terms．Of course the unexpectedly rich develop－ ment of the mine will determine the company to avail itself of its privilege to purchase．It is the intention also of the company to remove the mill，early in the spring，to the
mine, where a lucation has already teen erlect d, and where ed in copper mining, in order to lead to their early develan abundance of empluyment may be fund for the sume. opment. As we write we notice a paragraph in point in a This mill has eight heany stamps, to which four more will late issue of the Nevada Demoerut, which we condense as probatly be udted, and is driven by a vely superior 60 -hrirse power engine. The amalgumuting pans now in use are what are known as the " $K$ nox pans," heated by ateam chambers. The chemical process employed is that of Emilh \& Deweythe same which is used at the Ophir works in Washoe.
The first "clean up" was made on Soturilay of last week. after one week'a run, with a re ult, which greatly delighted and surprised every one interested in the euccess of this new enterprise. The Green Horn company had a little short of 20 tons of rock crushed, and took out two bricks ralued at over $\$ 4000$-upwards of $\$ 200$ per ton! and this rock, we know from careful inspection was from the most unpromising purtion of the pile lying at the vein! 'This clean up was mostly gold, there being merely a trace of silver. The result in that respect was what was expected. The rock which the company is now taking out. and which will enter into the next crushing, cuntains a large amount of silver with the gold.

We have not learned either the amount of rock cruehed or the mineral taken out from the Muvroe conpany's claims. The bricks from their "clean up" are silver bricks, containing, we believe, considerable gold, but their value cannat be as certained until the metal is parted. The result is, however, quite as satisfactory as that trom the Green Horn, and with many, more so, from the undoubted fact that that purtion of the mine is unquestionly silver ore, and hence more reliable than any gold mine. The Greeu Horu is locat ed about 300 feet higher than the preseut workings of the Monroe, and our impression is that when the former is worked to the same level with the latter, both will prove to be valuable silver miues, and fully establish the fact that we shall not hereafter be obliged to go to the Eastern Slope to find silver. We shall watch with considerable interest the future development of these mines.

## copper mining in california.

Copper mining has already become one of the features of California, and is evidently destived, at an early day, to employ a large amount of capital and form one of the clief mineral products of the State. From every direction we are in the constant receipt of inteligence of new discoveries and the successful workugg of already developed leads. The large pile of copper cre which has been lying upon the sidewalk in front of Duncan \& Co.'s, on Montgomery Strete for the past week or ten days, affords the most abundant evidence of the value of the recently opened mines in Calaveras county. The ore alluded to is from the Napoleon mine, situated sbout thirty miles east of Stockton, in Calaveras county. Quite a little town is growing up about this mine, which, in anticipation of its future importance has been clristened Napoleon City.
This company effected its first sale of ore a few days since, to an English House, which is represented in this city by Mr. William Shiels. The quantity sold was 100 tons, inclading, we presume, the lot now on Montgomery Street.This ore is bought oy assay, and will be shipped to Swansea, for reduction. The mines at Copperopolis, a few miles souther'y from Napoleon city, are already well known, and have for several months past, been raising and shipping large quantities of very good ore. The ore thus far raised in California is surposed, by persons well versed in copper mining, to be of a quality quite inferior to that which will be found at greater depths than have yet been reached in any of our copper mines.

## COPPER IN MARIPOSA.

Rich copper ore has also been recently discovered between Coulterville and the Merced river, in Mariposa county, which assays a very satifisactory percent of copper, besides a valuable percentage of silver and gold. A company, composed chiefly of Sacramento capitalists, with a capital of $\$ 300,000$, has already been organized to work the same. It is said that they will shortly have a hundred men at work upon the mine The existence of this vein of copper has been known for several years, but serious attention was never attrac'ed to it till since the late impostant copper developments in Calaveras county. There are no doubt many other known deposits of a similar character, in other parts of the State, which need only to be brought to the attention of parties properly vers-
follows!:-
copper mininu excitement in nevada col'nty.
It seems that the vein was discovered about a year and a half ago on a ranch near the Zinc House in that county.The owners had employed a man to sink a well on the ranch, who after going down a few feet, came upon a hard rock or mineral; he abandoned that place, and dug another we. at a distance of fifteel or twenty feet from the first. where he struck the edge of the same vein and threw out a considerable quantity of the mineral. A specimen of the ore was brought to Nevada and assayed, and found to be rich in gold. The proprietors of the ranch took the vein, and in connection with others, worked it as a gold mine, but from some reason it would not pay, and the enterprise was abandoned. One of the proprietore afterward removed to Amador county, and seeing some of the copper ore there, was struck with its resemblance to the ure in his supposed gold mine. He wrote to his partner still on the ranch to send him a specimen of the ore, which was assayed in Amador, when it was ascertained that it contained a large per centage of copper. The Amador partner immediately returned to Nevada county and re-located the lead as a copper mine. These facts, says the Democral, beconing known, numerous other parties repair ed to the locality, where hundreds are prospecting, and locatiag erery rock that looks as though it might contain copper. A number of veins have been found which evidently contain copper, and we shall soan know whether any of them are likely to prove of value.
the del norte county copper mines.
A party of scientific gentlemen rece ntly visited this copper locality for the purpose of giving the recently discovered mines in that region a thorough examination. They re urned on the last steamer from the North, fully impressed with a belief that the importance of the mines can scarcely be exagerated. Among the number (we quote from the Herald of this city) was Mr. Price, a Welsh geologist and mineralogist, who recen tly came out to this country with Mr. Sheil, a shipper of copper ore for the English market. He has for inany years been connected with the extensive smelting works at Swansea, and has therefore a practical knowledge of copper ore. He thoroughly examined the copper region and made more than one discovery of as great importance probably as any hitherto made. Mr. Price and his coropanions had every faci ity offered to them for investigation by the resideats, and his opinion will not fail to have great weight with persons who are interested in property in Del Norte county. Mr. Stearns and other geologists of eminent ability have also visited the county, and they coucur with Mr. Price in opinion.

The Panama brought 5,100 pounds of ore from the claim of the Excelsior Company, of which our fellow citizen, Mr. Fay, is President. Withio a year from this time, Del Norte will be classed among the mast valuable mineral regions of the world.

COPPER IN Plomas.
Some eight or ten months since a copper ledge was discovered by Messrs. Procter and Cooper, Genesee Valley, Plumas county. The ore, which is said to contain a large per cent. of copp er, is very heavy, and somewhat resembles coal. A company has been organized for working the mine, and in another season works will be erected upon the premises. About 16,000 pounds of the ore have been taken out, which will be sent to Boston for the purpose of being tes:ed.

The ship Regulator sailed from this port on the 21st ult, for Boston, with about $\$ 30,000$ worth of copper ore from the Copperopolis (Calaveras Co.) mines. Copper ore has now become a regular article of expoit from San Francisco. About half a million dollars, in value, from Calaveras Co. having already been sent forward. It is time that our Capitalists were casting about to devise some means for securing the business of extracting the metal from this ore within our own State. Present appearances indicate that the supply will soon be sufficient to warrant the necessary outlay of capital for the erection of works and conceutration of skill, which shall make California independent of the world in this particular.

## Mining Stock Report.

## San Fruxcisco, Dec. 5th, 1862.

There bas been more than usual animation manferted in the Miang stuck Market during the past week. The leading shares have gdvaneed beavily and luw priced stock has changed habds very freely.
Ophir continues to ste dilly advalice. Sanborn's Circular quotes one sato of 60 athares ( 5 feet) at $\$ 3,500$ per fout, 151 h Jnauary. Sales Have varied during the week from $\$ 2,500$ to $\$ 3,500$ per fuol-a wide margin for a well establisked, dis idebal payitig stock. Buyers are still basmg their operatiuns sumewhat on the expected divitends for last month. 477 bhares Changed hauds lant week.
Gould and Cury is stearily advaucing. Tho quotations for the week have rua frum $\$ 2,560$ lu $\$ 2,5: 6$ per foul- $\$ 2,700$ is generally asked. One sale of 20 shares is queted in the Circular ut $\$ 2,500$. It was sold at the Board for $\$ 2,525$. There are more purchasers thabsellers whe market.
Calfornia is quated a! $\$ 1,100$. No transuctueas. Malkel quret.
Chuller atill reats quict, 4 ith siball sales at slightly udvauced rates from It vour quotatious. It is tirm ut $\$ 275-\$ 240$ asked. sales have been mude $t \$ 280$.
foubi han been but little enquired for. Emall trananctions are quoted at from $\$ 75$ to $\$ 80$-an advusce of $\$: 0$ urer firevious quotations.
Nor sh Potusi is quoted at \$b-oftered al \$10.
Sierra Nevata is queteu at fiem $\$ 5$ to $\$ 80$. 140 shares changed hands Inbl week.
Dasey is quoted at $\$ 100$ bid_-200 asked. A shght falling off
Burniug Juncow. Hut litte has been done in this slock during the past week. Sabbor'u's (incular quales it at from $\$ 60$ to $\$ 65$. It scled at the stock Board, on Tuesday, fur $\$ 57$. Important amyrurements at this mine, elseLere alluted to, will probably now exert a lavorable induence on tis stwe k Mount Davilson is selling for $\$ 50-\$ 6$ asked, A slight udvance. Meredith is quoted at $\$ 17$ to $\$ 2 \mathrm{~V}$-, silggat advauce.
Burbside is queted at $\$=5$ to $\$ 30$ - $\mathrm{A} D$ advauce of $\$ 5$ over last week. lowa quoted at $\$ 140$ to $\$ 150$. An advance of $\$ 101$ er feol.
Norton quuted lant week at from $\$ 12$ to $\$ 15$, bas buce been sold at from -25 to $\$ 80-$ at advance of 100 per cent. A paragraph ia auther columu, its relativn to lis mine will fuly account for his sudden advance. a relation to this mine will lully account fo
Sucramento is quoted at $\$ 25-\$ 35$ is asked.
Hazel Green is meuthoned in the Territorsal Enterpriso, Nov. 28 h, as enirely without demand, with a large amount of stock in the market. The atebl sale was Nov. $21 \mathrm{st}-50$ foet at $\$ 350$.
Lucerne is quoted from $\$ 5$ to $\$ 8$.
Hale and Noj cross is quoted at $\$ 250$ but $\$ 275$ asked. No sale reported, liogers quoted at $\$ 223 / 2$ Lids- $\$ .5$ a-Led. $\$ 5$ assessmont.


## Washoc report.

Speculators have been tor some time lying back for men of small meaus to frecze, by the approaching winter, into selling their "feet" at small figures. The continued mild weather, however, has thus far sadly interfered with their calculations. The biters are in a fair way of getling bit. As a consequeuco stock trausactions have receutly been small and us.
The Euterprise, in its stock report of Nov. 26lh, snys:-Tho controlling plerest in several outside claims, we aro informed, hus been yuietly bought oy cipliflists 14 San fiauciseo, who iutend to perfect a speedy developmeat of these milucs.
The rame papur of Nov. 28 th says :-The Sauta Rita, have brought suit against the Cole Cumpuny lor purpose of sileucing the dispute agaibst their utle. The eluck of this Lempauy is hede firm at $\$ 50$ per fort, whthout sules. With an unclunded titte, the stock would rate at much higher figures. dily satamento bave sued some eight difereat ommanies ou Cedar Hill the saciamentulave sued some eight difereat ommanies on Cedar bin
to quet tule. Ths compry to-day shipped couplo tous of orst class reck to quat hate. The compray to-day shipped a couplo tous of Orst class rock
froun their mine to san fraucisco, in order, they say, to tairly test its richIroun their mine to san Fraucisco, in order, they say, to tairiy test its rich-
uess. Thu Lintermise intimates that this transactiou is mors for display uess. Thu Linternise iutimates that this transactiou is mors for display
than auy real protic which the company could hope to gain by transportag their ore so great a distauce for reduction.
Bald Eagle- 40 teet reported sulu on the 25 th ult. for $\$ 1$ per foot.
Onemtal-25 feet sold at $\$ 4$ per toot. A largo portiou of this Company's stock is reported to have chavged hauds recently al about this ligure. Ashland is enquired for ut $\$ 8-\$ 10$ is asked.
Ashluad is enquirud for ut $\$ 8$
Nevada is onqured for at $\$$ ?
The Euterprise's Stock Remarks of Nov. 22 says :-The Ironsides Complay (formerly Vermilliou Company) are reported to huve struct rich ruck it their tuvael. Several sutes have takeu place to-day in that stock at $\$ 5$ to Si per fuol.
Hudsell-last quotation, some ten days siuce, report 15 feet iu this compauy sold at $\$ 15$ per foot.
Bluomingdate at \$5.
Bluomingdale at 80 .
Codar Hinl Consolinated is enquired for, and could bo soll at very low fig Hes-Cedar Hill Tunnel was last offored at $\$ 6$,

## Cismeralda Stocks.

The Wıde West is still advanciog, and is quoted at from 8400 to $405 .-$ 3450 is generally asked. This stuct hus improved about $\$ 20$ durmg the Weuk.
Autelupe is quoted at $\$ 70$-with $\$ 85$ to $\$ 100$ asked.
Stua is quoted at $\ddagger 5$ and 88 is usked.
iver Hiil is $u 0$ quoted this week.
Utub has no buyers-herd at $\$ 40$.
Real Del Diuute quated at $\$ 12$ with $\$ 15$ asked.

## Coso Stocks.

The Josephine, Coso and Willow Springs are the best known Stocks in this district-but no receat trausactions have been made in either of them. The former is held at $\$ 20$. No offers are quoted for either of the others. The Josephine had bidders, the past week, at the Stook Bourd at from $\$ 15$ (0 $\$ 16$.-Hulders abking $\$ 20$ to $\$ 21$.
Coso-No biddere at the Beard-\$20 askəd.
Willow Springs-no bidders-\$4. asked.

## Mcxican Mines.

St. Nicholas Silver Mining Cu. is quoted by Sunboru's Circular at $\$ 100$. Miua Prieta fiodo no recent buyers, but is held at from $\$ 110$ to $\$ 130$.
Dios Padre is bold at $\$ 4550$.

## The Ophir Company.

At a meeting of the Stockholders of the Ophir Company held at their office, on the 26th ult. it was decided, conditionally, to purchase the interest of the Virgiaia Company in a vein located a short distance above the Ophir or Comstock rein. The amount agreed upon, we understand, is $\$ 100,000$-to be paid in monthly installments of $\$ 20,000$.

The Virginia Company, located a few feet above, it will be recollected, have recently set up a title adverse to the Ophir, the precise nature of which we have not learned. Whether this claim is considered of any account by the Ophir Company, we know not, but presume that that Company has been, in part, induced to make this amicable arrangement from the fact that whatever the decision might be, at present, another difficulty might arise in the future from the great probability, that as the two claims are dipping toward each other, they may eventually come logether: A very perplexing question would then arise as to who held the true vein-as it could not in that case belong to hoth. Un doubtedly the rein which should be found continnous in dip, would be considered, in law, the true vein. The danger to be apprehended is, that under such a decision the Ophir might be the loser. Hence the apparent propriety, of coming to an amicable and full decision in the matter at once, especially when it cau be done by the payment of the moderate sum named above.

## Washoe Items.

We condense the following items mostly from the Territotial Euterprise :-
Burning Moscow.-The Buraing Moscow, says the Territorial Enterprise, are making extensire preparations for working this mine in an ecolomical and systematic manner. A house has been erected some distance above the mouth of the tunnel in which their engine and hoisting machinery will be put up. Their engine, hoisting apparatus and a large pump are now on the ground. An incline his been commenced in the west end of the new building which will be driven down into the lowest portion of the mine as soou as the hoisting machinery is in readiness for use. 'They are now going to work in the right manner to work their claim to make a mine of it. A company may dig a tolerably deep aud very ugly looking hole, and may for a time keep the water out of it and raise some ore, with no other ma-
chinery than a bucket and windlass, but when mining is to be done science, system and machinery are demanded.

The Norton Company.-The Tirginia City Union says the Norton Company hare just struck their lead alter running a tunael twenty-ive feet into Cedar Hill, and sinking a shalt twenty-feet in depth from the end of the tunnel. Their lead is about four feet in thickness, and the quartz, of a hon-ey-combed rariety, is literally studded with pure gold. Very little, if any, silver has been fouud in it, as yet; but the amont of gold visible is large. Stock in this company has advanced the past week from $\$ 15$ to $\$ 30$ per foot.

Maldanado Lead.- The company working this lead, situated west of C street, betreen this place and Gold Hill, are taking out and heaping up ore which the Spaniards in charge say will pay for crushing. The ore is of a rusty, red appearance reembling, in many respects that of the Gold Hill miues. The Bachelor company, adjoining the
Maldanado on the south have completed the building comMaldanado on the south have completed the building com-
menced by them some tro weeks since, over their incline, and are now preparing to erect their hoisting machinery, etc.
Mount Davidson Tunnel Conpany Iaprotenents.-The Mount Davidson Tunnel Company are erecting a building at the mouth of their tunnel, just south of where the new Gould \& Curry ore house is to be erected. The building is intended as a work shop and tool house, also to shelter the mouth of the tunnel from the storms and drifting snows of winter.
Water.-In early times the great fear of those erecting mills on the various canons of this region, was that they Fall months for the numerous requirements of the works. Every year the volume of water fowing in the rarines has increased. Plenty is now ruaning throngh all the canons on which mills are located to meet every requirement, and we hear no more of the water bugbear.
Spanise No. 2.-This company have set up their engine and are very nearly ready to commence the woik of hoist ing the water from their shaft. They are about ready to commence with their steam hoisting and bailing apparatus
Phoenis Concentrating Company.-This company are Gold Hill. They bave some six or eight men at work at shoveling the ore into shaices, attendiag the concentrators,
assorting, ets. Soue seventy fire or a hundred tols of this assorting, ets. Sowe seventy five or a hundred this of this day, when we visited the works.

Genids Tried and Triumpeant.-This Play, recently from the pen of our ta'ented California author, Rev. Dr. H. Bien, of this cily, is to be produced on the 11thinstant, at the Anerican Theater. The plot, incidents, language and oovelty of this play will create a reputation for the author that will compare favorably with the most celebrated writers of modern drama. The beit available talent has been engaged for the season, and we trust oar readers and citizens will pay a just tribute to our Reverend friend who is in every way aeserving.
How to Test Surfer Ore.-Pound a small quantity of the rock supposed to contain the mettl, as fiue as possible, then place it on a shovel, or anything handy! and hold it over a slow fire, to burn away sulphur or arsenic, which are generally mized with the ores of silver. Then take a cup, or any glass or earthernware vessel, into which pour a small quantity of nitric acid (aqua for is,) in which put about a teaspoon full of the powdered ore, which boil in the acid for a minute or two. Then take some common salt, dissolved in water, in another ressel ; pour a small quantity of the salt and water into the acid; if it turns white and looks milky, there is silver in the ore. The above is a cheap, convenieut and certain test for silver.
We have given, in another column, a full description of the newly discovered Gress Valley Silver Mines, and the result of the first "clean up" from their mill. This, we believe, is the first silver mill which has been fitted up on the Western Slope, but, we trust, will be the precursor of hundreds. It has already pretty clearly demonstrated one highly satisfacto-
ry result-that silver ore can be found about Grass Valley, ry result-that silver ore can be found about Grass Valley,
in paying quautities. Having until recently been a resident of that town for some eight years, we know enough of the energy of her citizens to truat them for the future energetic prosecution of this new branch of mining, and feel the utmost assuance that no effort will be spared to make the
most out of this present development, as a stepping stone to future researches for more of the same kind of mineral.

## Important Publicaiton.

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Metalic and Agricultural Wealth of the Pacific States." The editor of this work has recently disposed of the "Mining and Scientific Press," with the view of devoting his antire atten-
tion to the publication of the work; to this end he is maktion to the publication of the work; to this end he is mak-
iug arrangements for an early visit to the Atlantic States and Europe. The work if carried out according to the prospectus, will be one of the most valuadle publications yet presented to the public, and will prove of incalculable bene-
fit to California and the Pacific Coast generally, in bringing fit to California and the Pacific Coast generally, in bringing
the immense mineral wealth of this region more promicently before the Capitalists of Europe. The object is a laudable one and ought to be encunraged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the subjects of which he treats. He desires but little aid and that we trust he will readily obtain. The ftllowing is the prospectus:


RECENT PATENTS-Grauted to Caltfornia Inten
E. E. Matteson, Nevada: Hydraulic Derrick. This nvention has been illustrated in this journal, and has obtained great celebrity throughout the State.
Elander Heath, San Francisco, Spiral Spice and Sage Mill. See "Mining and Scientific Press," June 9th, $1^{\circ} 62$, Vol. $V$., No. XIII.
G. F. Deetien, formerly of Nevada: Apparalus for separating Gold from Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation, Mr. D. has recently established himself in this County, on the San Brubo Road. near the Islais Creek, where he has erected chemical and metallurgical works.
Routes and Fares from San Francisco to Foreign and
Domestic cities.
Paciflc Mail Sleamship Company-Steamers leave for New ${ }^{\circ}$ York wia Panama, on the 1st, 11th and 21st of each month. 1st cabin, $\$ 250 ; 2 \mathrm{~d}$ cabin, $\$ 200 ; 3 \mathrm{~d}$ cabin or
steerage, $\$ 100$. Steerage, $\$ 100$.
Nicaragua Steamship line, Ross, Dempster \& Co., agents. -Steamers leave for New York vin isthmus of Nicaragua, fare not yet stated.
To Portland, Victoria, \&e., \$60. Crescent City, Trinidad, \&c.. \$20 \$30. Sun Diego, Monteree, and Los Angeles, $\$ 20$ to $\$ 30$. Sandwich Islands, per sailing vessele, $\$ 100$ to $\$ 150$. Anstralia, sailing vessels, 1st class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, lst class, $\$ 200$ to $\$ 250$. Mexico $\$ 30$ to $\$ 50$.
Califcrria Steam Navigation Company dispatch steamers daily to-Sacramento, $\$ 5$; Stockton, $\$ 4$; J'eta una, $\$ 3$. Overland Mait Company - Stages leave daily fot St. Lonis via Salt Lake ; fare, $\$ 200$.

## THE EYES! THE EFES!! THE EYES!!! <br> DR. E. H. PARDEE,

Oculist and Aurist to the San Francisco Deaf, Dumb and Blind Asylum.

After a protracted blindness of more than five years. Dr. PARDFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practicing with a success that cannot be surpassed in the United States; and as proof of this he substantiates by many cases exhansted ifornia that have been cured by hin, after having New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there has been more blindness from bad and improper treatment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more terions than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what had been formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone;" "I was bled and blistered, then cupped two or three times a Wepk-had a blue pill prescribed for me at night, and salts
in the morning-was ordered in a dark room-to keep my in the morning-Was ordered in a dark room-to keep my
eyes tiohtly bandaged-to avoid the open air and exercise, with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be carefal and not place their eyes at the mercies of a man who does nothing but bure them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and fol-
lowiog theories the most erroneous, and destructive to the lowiog theories the most erroneous, and destructive to the
eye. How much more rational and consis'ent to consultan experienced Oculist, who thorougbly nnderstands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patierts under his daily supervision, and, with but very few cases, they have all
been treated by other physicians hefore applying to him-and all to no benefit. Those wio are doubtrul are permitted to call at Dr. Pardee's office and confer with the many patients who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artificial Eyes' on this caast, inserted, having all the movements of the real eje, and that theylon $k$ so life-like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or ion or extraction;-"Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&c.
OFFICE :-Ciay
OFFICE:-Clay street, above the Plaza-opposite Plaza
augl4.

PACIFIC MAIL STEAAMSHIP COMPANYE Line to PANABA FUK PANAMA,

## The fotlumiag Stemantiys will be dispatelech th the



Will lanve Folsons street Wharf, with Peseengers and Treasure, for Pumam
at 9 ocluck, a. 3., Penctcali.y,
And connect, vis Paontua Raulroad, at Asplawall, with stearnsbips for N. York For freight or pasenge, apply to

FURBES \& BABCOCK, Agents,

## OPPOSITION

People's Line to New York
ROUTE CHANIFED FRHM NICARAGUA TO 1STHML'S OF PAOAMA.

## Through in Twenty-one Days!!!

ras Fire bays aheal of the Mall
The fast and favorite Double Engine Sleanship
MOSES TAYLOR, 1,600 tons,
E HOWES
Commander
$P A \perp A M A$, From Mission street Wharf,
Functually nt 9 wietock A. 3., of
THLRSDAY, - . . . . . . DECEMBER 11. 1862,
Connecting at Aspinwall by the Pauama Railroad, Aod thevece by the spleodud steamshin

## AMERICA,

2,000 Tons
JEFF. MAURY, Commander.
The Amprica lias proved herself the swiftest Steamshipalloat, and in com-
 The Jurs Yaylor is known to be the fleetest ship on the PaciAe, and pas-


TIIE PEOPLE'S LINE
Has been estabilithed to meet the uuiversal demand for an

## OPPOSITION,

## Aod evert Callforniau should give it a preftrence for the public

Reduced Fare, Good Accommodations, and Quick Trips.

## This line is intendel to be a permaneser, and is not put on for the purpose of beiug thought or triven off. Speen, sufity and the ntmath comfort of

 Tight Compartments, and is ulequaliod tur saftety us well as spues. Fur iufurmation or passinge apply to
I. K. Ruberts, Agents

## LABOR-SAVING

Rock Drilling Machines.
TO ENGLEERS, RALLROAD COATRACTORs, TCRNPIREAND QLARRY


HAND, HORSE, AND

## STEAM-POWER MACHINES.



## PRACTICAL COPPERSMITH,

No. 118 (Old No. 22) Bush street,
Between Sansome and Battory $\qquad$ Say Franctisco.
Whilst thank ful for the former contidence bestomed upon me, I desire to
say that I am ready to atake and reasir with say that I am ready to aiake and repair with cheapuess aud dispatechevery-
thing in my line of busitess ; especally all kinds of apparatus used iu Brew erius and nisitileries; alsos, all such as are used where stean, spirits, o
pumps of auy kiad be required. Also, Kitchen utensils for Hotels, Restum pumps of any kiad ho required. Also, Kitchen utensils for Hotels, Restau as Tell as all other kiods of copper work,
41 orders from the couniry promptly attended to.

# A. ROMAN \& CO. 

wholesale and retail
BOOK ESTABLISHMENT.
417 and 419 Monigomery etrect, SAN FRANCISCO.
13. Ordera respeetfuliy solicited and promptly attended to.

Treatiso on Metallurgy, Comprising Mimug avd General and Particular Butallurgical Upenutions, Eitc. Eic. By Frederlek Orerman
A Manuul of Metullurgy, or A Practical Treatiso on the Chemiatry of Metale. anuat of Jetallurgy, nere particularly of the precious
ing such othors ats are emplayed in dental practice.
Recorls of Miniug aud Metulhigy, or Facta and Memorandn for the Ure of figent on the Chemiatry and Miniug of Copper.
Practical Jlineral Aswaylog abd Sliniag. Overman Gold Minug and Akonymg; by Phips.
hioers' Companion and Guide, compiled by Silversmith.
Assayors' Gulde; or Practeral directious to Assayers, Miners and Smetters. ractical Assuyjug, by Mchell.
Tres Ures and Silver Atiues, by Pro. Blake.
Cre's lictiouary of Arts, Manutucturea and Mines. Fensbach's Merlamies of Machinery aud Eugineering Vicullo's Hydraulic Formula Tables.
Freseajas' Chetucal Aualy sis.
Together with many other worksin this \& similar line 03. Books lmported to order on short notice. Ta

$$
\operatorname{A.~ROMA~N~}_{417 \text { \& } 419 \text { Montoomerv Street. }}
$$

Gird's BUDDING KNIFE
THE ATTENTION OF FARSERS, HORTICCLTURISTS AND CUTLERS, OR of Horticultura. Implements, are relerred to the above
No. 24, vol. v .
State, Terrritory aud workshop righta for sale at reasonable prices.
Aduress,
J. SILYERSMIH, (Ageut for Pateltoe.)

## 3 ur

## Beadtung fïr ©rfinber.

Erfinter, welde nidjt mit ber englidaen Spradie befamt jint, founcu igre Mituciluggen in Der Deutidyen Spradje madjen
Gliz̧en ven Erfuthngen mit furjen, beutlid gejanticbenen
Bejdreibungen beliebe man gh aborefiten an.
Jul. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Nontgomery street., bet. Buah und Sutter, san francisco
wholesale and retall dealers in
PIANOS, SHEET MUSIC tralian strings
INSTRUMENTS OF ALL KINDS, \&c., \&c.
Solo agents for the colebrated munufacturers,
A. A. Gale \& CO., Newo York;
' $\mathbf{I}$. GILBEい' $\mathbf{I}$, Boston;
C. MEYER, Philadelphia

Whose Pianos they have always on hand, or sule aud to reut.

## planos for rent.

New Music received by eoery steamer. Newo Music pub lished. Music assorted and bound in the best style. A lib erul discount made to the trade and professors of music.

## V. SQUARZA'S <br> PUNCH FACTORY

We present hereifith the yortratt and trade mark of the gentlomun who heads this article. Mr. Squaran is lavorably know in this Stute for his Auti-Livorce Liquere and similar productions, as
manufactured by him. We nay mention that Mr. Squarzan is nu fait in the chemico-distilling science, bence the celebrity of his articles. He bus two Estiblishments for the sule of his fawous Yuach-one ou Leidesdorif, the other on 3
vivants.
vivants.
The following is a list of his liquors, all of which we have tasted, and and them the most delicious and hurmless beverages in this city, being pure, them the most delicious and harmless bererages in this cily,
and undulterated with drugs or other injurious cliemicals:
Rum Puach,
Cognac do.
arac
do
Cognac do.
Arac
do.
Aati-Di
Cofree
Tica


Anisette,
Kirschwoss
Kirschwassor
Brauly
coektail Braudy Coektail,
Antilliyspulsial
Appetters,
Aper Appether,
Linders' Tears.

Dr. Van Zandt,
Consulting Physician and Surgeon, OFFICE:
Corner of Washington and Sansome Streets.
The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nalure, Electricity! Made Subservient for the Cure of all Nervous aud Spinal Diseases.

THAT THIS PRINCIPLE, succeaffully applied to difeased states

 obvatiug Useasod activh. Much Cannot Bo Sald
Too Mat
In ts prafe ; for it is tigigly prounte that iu bealth there is an exnct equi-

 is there not a war of forces going ou to nur systemy Thus veids correcting and 11 orter that the tissues of th
agents we munt first restore uud
The spinal and symputhe Magnetic Lite Within Us, to this great magnetic or electrical intensty of the earth, with its miluence
 press, throug
come lo anl.

No Compromise with Disease.
Give the body strength, and hature will relieve herself. Purity the lifo blund, render the Efowach, liver, heart, hidney aud all the batural functhe uerrous, we dispirited, the melanglioles, the dyspectio aud the iuvalid To the Ladies or Califormia.
Dr. Van Zandt's success with coluplafuts of women, both in family and office practice, is owimg to hiv correct views of thse urigio of all thatr malanpes. humats can cunsult him with entire coufiduce, as he os uo speculator protessiou it Califirnia who is realy successlul in remuving those ins wheh are the pecuhar province of the sex. His bigh appreciation of their deli-
cately altuned nervous organism, cogether with their great symusthetio cately altumed hervous organism, cogether with their great sympatbetio
life, venders him doubly able to assuage thove silent complaimugs which
ind thay bear su pmiently nul so loug, No social disquictude aeed louger af-
Hect our bome cirtles; tur be can arouse the atricken energien ; rescore the wonted tourcty of the body; a waken the melancluhe and despondiugs ; arrest those drains which causo so much auxiety ; cure those protean mala-
dies which have so loog Develon Bafted the skin of Phyatcians.
 ead lifelessuess, hectic cough, sleeplessness, unpleasant dreams and that general depressiun of life's powers, whach go to render her life a misery and death a boon. Dr. Yau Zandt, with his new method of exethug the Electro-Galvalic carrent, tngether with his remedial measures wheh are adapted to tou necessities of Culifornia, will asare you of a complete aud
radical recovery of all boditr aud mental infirmities, and will restore you radical recovery of all bodily aud mental infirmities, and will restore you
to usefnlness, and spare you in blessiug to your family aud to society. All the World Over
Wherever disease exists, whether special to the soil and elimate or com-contngious-it ha as necessary to restore the Electro-Galvanic equihbrium, especially in Califoruia, as it is to give fuod to the sitarviug. This statement is hased upon a serics of facts extending through many years, and
veretied by hundreds of patients : so that no mrinciple of science, uo rule of verctied by hundeds of patients ; so that no jrinciple of science, wo rule of
experience, no result of any well known culuse, rests upon more sure and
 tiou of Electricity for the cure of all nervous states of the body, faulty digestion, meu al mat plysical debility or prostration, coughs, asthmu, wan-
deriug paus of a rbeumatic, gouty or mercurial character, and all forms of dering pans of a rbeumatic, gouty or mercurial claractor, and all forms of
disense, the result of serofutu or conbectic habit of body, None Need Despair or Relier.
If you have ulers whicb will not heal-puins that cannot be removedmeloucloly whlch you cunnot shake off-luss of power which you cannot reuo rleeping-bustuess that languishes for want of energy $-a$ void which no kociety can fill-suspicion which uo assurauce can allay-Go to Dr. Van Zavdt, for his great success, and the safety with which he administers his
bew method of Electrical excitation, together with bis remedles, which are bew method of Electrical excitation, together with his remedles, which are adicul removal of all bodily and mental infirmilies, within the scope of

The eye and Ear Diseases.
It must not be forgotien by the eyc and ear sulferers that Dr. Fan Zandt geon en our Stute, who has $a$ diploma for that branch of practice. Very many of the eye uud ear troubles are puruly deranged nervous actoons, and are cured by bis electro-galvanic buttery-as amausoris, squmating, cataraf, llouting specks before vishon, twitching of the eyelids, nervons deafuess,
roarsug aud buzzing noises in the ears, giddiness, ote. All operations successtully done ou those 山elicate organs of seuse,

FREDERICK KESMODEL,

## Cutler and Surgical Instrument Maker

 817 KEARNX STREET,Between Jucksou sod Washington streets,

## SAN FRANCISCO,

$\mathrm{R}^{\text {ECEIVED a diploma at the Fair of the Mechaules' Institute, Soptember, }}$ R 1858, alsn in Sacramento in 1861 tor California mado C'utlery. fae azeeation of tuuse amicted with HERNLA, or Kuplure, or any one in terested, is called to his yew method of atting and adapting Trusses to the ditiereat cases. It is a well known fact that there bas as yet been no system
of fitting Trusses. There are mauy tifereat styles which have proven good in many cases, but they are all uncertain and cannot be r lied on, und in severe cases are altogether useless. The following are some of the adrantages I claim for these Trusses ajove any and all others: First-The Yad is
formed on the parts to be compressed by taking a plastor cast. Secubdformed on the parts to be compressed by taking a plaster cast. Secubi-
Having a correct model, it eundies me to make the Pud of any desirable Haviug a correct model, it eumbles me to make the Pad of any desirable
material, such as horn, irory etc. Third-The Pad is so adjusted to the spring that no movement of the body will move or displace it. There are
many other advantagea. Examine and judge for yourselves

FREDERTCK KESBIODEL,

Inventor and Patolitee.

Our Mint, its Rules, Charges and Operations.
In the columns of a contemporary we observe some exceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857 , while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little under twa per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our branch mint. The total expenditures for three years under Messrs, Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expnnditures for four years were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last vear of Mr. Hemstead was upward of $\$ 100,000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of up wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in an equally satis黣ctory manner.

For parting silver from gold when gold
is below 300-1000ths. fine.

$$
\ldots .3 \mathrm{cts} \text { per oz. }
$$

" from $300-1000$ ths. $10750-1000$ ths fine. Tcts
Deposits Silyer Bullion-Purghases.
\$1.21 per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of yold 1 to 300 , 3cts. per oz. gross weight

## 301 " $500,7 \mathrm{cts}$,

1 Deposits for Fine Bars
\$1 16-4-11ths cents. per standard onnce, $1 / 2$ per ct gross molue of silves for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

> Bars Sold From Refinery.
$\$ 1$ 21cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

> Depostred for Dollars.
\$I 16-4-11ths. per standard oz. $1 / 2$ per ct. gross value for coiring, when gold is contained, refining charge the same as in purchases.

## Deposited for Imported Bars.

$\$ 116-4-11$ ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for making bars.
In regard to the deposits of Washoe silver, the rule will Thereatter be, that the value of gold contained in the same will be paid in gold coin, and the value of silver in silver coin. The value of the silrer will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, noless deposited for silver dollars, is which case a charge of Y/2 per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, ins most congruous with the plysical aspects of the material, but in the warrant it must be marked that so much is to be paid in gold and so much in silver, according to the con
rents reported by the assayer. The above rules, and charges Hents reported by the assayer. The above rules, and charges
were promulgated on July 10th, by Superintendent Robert J. Stevens.
U. S. Beakch Mint, Nov. 6th, 1861.

On and after the 15 th inst., a charge varying in accordance and the character of the deposit, from half a cent to three cents per ozn, gross, in addition to the general rates, and be imposed on afl brallion deposited for coindge or manufacture, which will require toughening or extra refining to render it suitable for mint purposes.

Robt. J. Stevens, Superintendent.

## READ THIS!

C Ster was engaged in the Summer street Honse in, THHILE IIR. BRENT Coster was engaged in the Summer street House in pouring coal oil from one can tn another, his wire imprudently approaehed with alighted candle
and the in exploded. Mrs. Brewter's arms were bady burned, as spere
also the busband's lands. flutever, he succeedcd in masterine the aleo the husband's hands. flurever, he succeeded in mastering the llames,
zud preventi2g worse oonsequeaces.-[Eveuing Bulletin, Aug.

## THEN THIS?

COMET ILLUMINATING OIL!
Manufactured expressly for Stanford Bros.

## q his poptlar

BRAND of KEROSENE

## Is warranted free from Camphene, Petroleum, or any other explosive mat

Best Family Oil in the Market
STANFORD BROTHERS,

50 lbs, MARINE AND FIRE-PROOF PAINT
 tains Arsenic. Copper, litharge and six other 3inerals. When usen on t
Decks or Bottnoms of Shps, it is equal ot a coat of Stoue, and quite equal
Copper, no worms will ever eflect it, and cheaper than any other paint.

DIRECTIONS
For Decks of Ships, use two parts Mineral Paint, ene part White Lead, max Fith Linseed Oil.
For Bottoms of
For Bottoms of Tessels, use one part ground sulphur, three parts Mineral For sale with Coal Tar and apply it hot. For sale by all Ship Chandlers and

## 25 lbs . Fire-Proof Paint,

When used on Roois, Buildings, or Fences, it is equal to covering them With a coat of Stone, being perfectiy Fire-Proor, and coasting less than any
paint. HOUSE - Mix three DIRECTIONS
HOUSE :-Mix three parts Minerul Paint with one part white lesd, thin
ith Linsed oil : If lighter color is wanted, mix loss paint, more lead. ith Linssed oil : If a liggter color is wanted, maix loss paint, more lead.
ROOF:-Five parts of \$ineral Paint, one part white Lead; mix with Roof :-Five parts of sineral Paint, one part white lead; mix with
inseed oil. Put it thick on a tin Roof, as one coat when properly applied vill last three years.
WORES, North Beach; Office, 318 Calfornia st.,
WORES, North Beach; Office,
SAN FRANCISCO
WRIGHT'S PICKS.


TonN WRIGHT, of Sacramento, bas established himself in San Franexse for the manuficture of every description of 1 ICKS, of the best material at reduced prices. PIrR ELEs of the best iron firbished in any quantity, at
low rates Orders from the country promptly attended to. N. B. None genuine unless stamped with my uam

Opposite Battery, San Fraccisco.

## LEWIS COFFEY \& RISDON'S

STEAM HOILER AND SHEET IRON WORES.
The only exclusirely Euiter Jaking Establishment on the Pacibe Coas
Old Stand, corner of Bush and Market Streets.
LEWTS COFFEY
J. N. RISDOA

SUGGRSTION'S ABOUT FOREIGN PATENTS.
A merican inventors should bear in mind that, as a general rule, any inveution which is valuable to the patentee io this country, is worth equally as much in England and some other foreign countries. Four patents-Ameriran English, French and Belgian-will secure an inventor exclusive monoply to his discovery among one handred millions of the most intelligent people in the world.
The facilities of business and steam communication are suen, that patents can be obtained abroad almost as easy as at homs. The majority of a! patents taken out by Americans in foreign countries are cbtained tbrough the Mining and Scientific Press Patent Agrncy. Havingestablish-
ed agencies at all the principal Eurupean seats of Govern ed agencies at all the principal Enrupean seats of Govern
ment, we obtain patents in Great Britain. France, Belgium, Prussia, Anstria, Spain, ete., with promptness aud dispatch.
Models are unt required in any European country, but the utmost care and experience is necessary is the preparation of the epecifications and drawingse
When parties intend to tak ont foreign patents, engravings should not be publisbed until the foreign applications have been made.
Caution-It has become n somewbat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such applieations as they may orberwise fall into the hands of irresponsible parties, and thus be defranded their cases to the carc of a competent, reliable agent at their
While it is true of Most European countries that the system of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex amination; as it is a common practice when a patentee find a purchaser for bis invention, for the latter to cause such ex-
amination to be made before he will except the title. amination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any tors should beware of speculators, whether in the gaise of patent agents or patent brokers, as they cannot ordinarily be rusted with valuable inventions.
A Circular containing furtber information, and a syoopsis of the Patent Laws of various countries, will be furnished on application to J. Silversmitb, Goveroment House, San Francisco.
Miners, Inventors, Agricultoralists, Capitalist and Mechanics, will find it to their adrantage to subscribe for the Minivg and Scientific Press-being the ouly journal of that class published upon this continent. Issued every Saturday at four dollars per annum.

Address, J. SILVERSMITH,

MUSIC! MUSIC !! MUSIC!!!
A. KOKLER,

IMPORTER OF ETERY DESCRIPTION OH'
Musical Instruments and Musical Merchandise. Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS.
Wherever these instruments aro known they
RANK AS THE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musictans of the country have testified to
their superiority. their superiority.
A. KOHLER, Agent fur the Paciñe Coast.

## Melodeons and Harmoniums, MASON \& HAMLIN.

Warrarted superior to all others.

nef Send for a catalogue und Price lifin. A. KOKLER, Agent.

## CORNS AND BUNIONS REMOVED.

DR. BYRON C. KENNEDY, practical Curropodist, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick Honse, where he is prepared to remove all excresences, snch as Corns, Bunions, Iaverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblaias, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic UI, cers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street. opposite the Lick House, from 9 to 12 A . M.., and 2 to 6 P. M. Having devoted six years of study to this important, hat too much neglected. bruach of haman knowledge, and having studied anatomy under the nost skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my specia ity for nine years. enables me to operate skilfully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of sargical science, and it occupies with others an equally lotty position in the profession.
Voizin is an illustrions example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kennedy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this conntry, in this branch of the profession, throughout the United States.

The following letter, which errophatically speaks for itself, was writted by Dr. W. L. Stevens of the University Coilege of Philadelphia
 your departure for Califorriza, and wishiug to inform the citizzons of thitla-
delphiz and also the penple of the Shite of California tue estem in which delphizand also the penple of the sthte of California toce esteem io which
we hold you, and kuowiug that nothing is more essential to your succesis we bold you, and knowiug that nothng is more essentint to your success
than the encouragoment which you may receeve fromin the people of Phila-
delphia, in the midst of which is the platground of your bor howi,



 will repay ymitior your years of study, and that you may find
or youre xertio siothe pew and gruviog city of the Pacific.
He subscrlve nurselves yours,

 remover a caucer frona nay malddemen, winger I had no use of for a pe
riod of six mouths. I cordially commend him to the sufering bumanity
Phuladelphia as a skifal oargeon.
MRS. J. W. HAMMOND. John Corbett, M D, Capt McClupe,
Fm Hills, Jr,
Rer Walter W Stanton, ILD,
Sampel W Howard. Atery at Mrs Smith, Greepe street,
Mrs W L Howrard, Mrs W L Howrard,
Halter Foster, Com Mer, Third st, Sawnel WHOward. At'y at Kaw,
Cleopole Stevens, Pharmacentist, Majers Davis, Market st, abore Fifth, Major Comsfoek,
Mrs W. Patridge, Walnot street. From Dr. W. L. Steveus: Dr. Kennedy has onerated apon my feet, and has
effectually cured me of some torturing pests that I have been annoyed with for years
From the Rev. Walter Mr. Thompson : This is to certity that while sojouru-
in in Philadelphia, Dr. Kennedy has operated on three of my family to my ing in Philadelphia,
entire satisfaction.
From the Hon. Wm. M. Thorn, ex-member of the Ohio Legislature: This is
Frent great skill as a calued on or. Kennedy to operate on my fet: He displayed great skill as a curgeon, and I am satisaed that he has effectually
ol those torturing pests which havo annoged me for many years.
From Geo. F. Omerly, b37 Arch street: This is to certify that I called on
dr. Kennedy. He bes operated on may fect to my entire satifaction. au21

## Pracilcal Information for Bineral Proepectors.

Every working miner, and especially every "prospector" in Culifuroia, should have some knowledge whereby he may be enabled to arrive, at least, to an approximate idea of the nature and value of the various descriptions of ore which are constanlly coming under his observation. To neglect this suggestion is to ignore one of the most important advantages which even the commonest laborer, in this state, has of securing, at some opportune moment, a sudden and ample fortune. Very few persons, in this state, will read this article withont calling to mind some person, who, to their knowledge, has, for the lack of the very information contained in this article, setually lost an opportunity of enriching himself.

In our last issue wB gave a very simple, yet genorally re liable acid test by which the presence of silver in any ore may be readily ascertained. For the convenience of those who may wish to preserve the two, we have reproduced it at the conclusion of this article. We now proceed to give some general instructions by which almost any person may whe the common blow-pipe, with very satisfactory results, in all ordinary cases, such as will be likely to come under the notice of the Californis prospector. These instructions have been carefully prepared by a gentleman of large scientific attainmenta. In all ordinary cases, the rules here laid down may be implicitly depended on, but in complicated cages, where the assay gives uncertain results, proportionate eantion should be employed both in operating and deciding. In cases of an extremely doubtful nature, and for final conclusions, previous to the outlay of large expense, resort should always he bad to a practical and competent assayer

In our next issue we shall give a aimple method by which the amateur operator may ascertain, with a very great degree of exactness, the proportion of mineral contained in any given quantity of ore presented for assay.
"The miner will commonly judge a mineral to be metallic, If it hass metallic aspect, or if it feets particularly heary in the hand; but others sliso discover metallic propertiee to the blowpipe by:-

1. Fielding a bead of metal to the reducing flame, on charcoal, which is facilitated by the addition of soda.
2. Passing off in vapor, more or less dease.
3. Attracting the magnetic needle, after heating in the reducing flame on charcoal.
4. Coloring boraz strongly, either on charcoal or pipeclay.
tir hen a metalic bead is produced, it may ke pure sive him, lead, bismuth, copper, gold, or iron, copper, mickel, or co Gold and silver may be distinguished by not losing their brilliancy in the outer flame; tin by its whiteness and solt ress; lead and copper are immediately distinguished by their color ; and bismuth by fuming and evaporating in the reducing flame. The argenical alloys and compounds, not clearly distinguishable by these means, nor by their streak upon the black flint, must be examined by fluxing with borix. If it give green or pipe-clay, it is copper, though it
banpened to be bleached by the arsenic. If blue, it is banpened to be bleached by the arsenic. If blue, it is cobalt. If orange, yellow while hot, and the color fly on cool.
ing, it is irnn or nickel; and these are distinguished by their reducing flame on charcoal, where the borax head is bottle green with iron, brit almost colorless with nickel. If the metal yield no bead, but pass off in vapor, it is quieksilver,
arsenic, antimony, bismuth, or possibly tellurium, cadmium or zinc. If the vapor smell strongly of garlic, it is arsenic. If it leave a circular halo on the charcoal, it is antimony, tellurium, bismuth, or cadium. If the halo be white, it is an timony. If orange-yelow, it is to be subjected to the reducing flame If it disappear eavily, tibging the flame green, it is tel luriuro. If it evaporate with difficulty, and without tinging the llame, it is bismuth. If it be red or orange-red, it is cadium: If the mineral evaporate readily with no odor, or only that of sulphur, and without leaving a white or yellow ha lo, it probably contains quicksilver, which is proved, if on mixing a portion of it with soda and iron flings, heating it on charcoal, and holding a bit of gold coin in the vapor, the quicksilv or show itself on the coin. If using soda with the reducing flame, the assay bura after a while with a pale green flame and white smoke, covering the charccal with a white flaky powder, it contains zinc. If it will neither yield a bead of metal or volatilise, but attract the magnetic nee dle after the operation of the reducing flame, it most probably contains iron; but it may be nickel or cabalt-easily dis tinguished by fluxing with borax. If the mineral, or the residue, after part has evaporated, will neither yield a bead, volatise, nor attract the magnetic needle, we have then to flux it with borax, and the followiug table will skow what it contains:

## If it stains the borax,

| In the reducing flame, |
| :---: | :---: |
| on charcoal. | \(\begin{gathered}In the cacinating <br>

flame on pipe clay.\end{gathered}\)
The metal is

## Blue

Bright Green
Colorless or reddish.
Bottle Green

## Pale

Dirty green
Purple
Colorless

| Blue | Cobalt |
| :---: | :---: |
| Colorless | Chrome |
| Bluish Green | Copper. |
| Orange, while hot, paler as it cools. |  |
| As iron........ | Nickle. |
| Yellow. | Uranium. |
| Colorless. | Titanium... |
| Purple........... | Manganese |

"Copper is reduced in the metallic state in the reducing lame ; and hence, when in quantity, shows itself in its usual ed color in the bead.
"In mixtures of metals the indications are sometimes ready enoughi. If on pipe clay, we find the borax tinged between orange and purple while hot, and becoming purple in cooling, whilst it gives a bottle green on charcoal. we immediately perceive the indications of iron and manganese- a very common mixture. If, again, we find it bright green on
pipe clay, and emerald green on charcoal, a mixture of chrome and copper is indicated. But it more frequently happens that mixtures of metals give arobiguous results, and that they can only be ascertained by cautiou and perseverance.
"Although most of this is sufficiently easy, it requires a little practice; and, to give the operator confidence in his results, this is best performed upon substances which he knows to contain the metals he assays fur. Thus, if he operate on common mundic, he is certain, after a sufficient time of roasting and heating on charcoal, to obtain a residuum capable of affecting the magnetic upedle. White mundic will leave the same residue, after giving off an arsenical smoke.
Green copper (malachite) will be sure to yield o bead of copGreen copper (malachite) will be sure to yield' a bead of copper on charcoal, and will as certainly produce a five green with borax on pipe clay. Any of the ores of a lead may be promptly reduced to a metalic bead on charcoal.
"The vapor of antimony may be easily distinguished from that of arsenic, by the garlic odor of the latter. A minute particle of manganese will tinge borax a fine parple or pipe clay, in the outer flame: but on charcoal in the hlne flame. a much larger portion, dissolved ia borax, will become limpid and colorless. A partiole of titanium ore will give an oppo-
site result, bleaching on the pipe clay, and becoming purple on the charcoal.
"The experimenter should also not fail to reduce tin ore' by the aid of soda, and sume ore of zine by the same mieans; that he may become acquainted with the appearances iix these assays. Thus varying his practice as materials happen to fall ia his way, he will quickly acquire familiarity with the appearanees and resulta, and feel confidence in any afsay he may undertake.

How to Test Suver Ore.--Pound a small quantity of the rock supposed to contain the met $I$, as fine as possible, the place it on a shovel, or anything handy, and hold it over a slow fire, to burn away sulphar or arsenic, which are generally mixed with the ores of silver. Then take a cup, or any glass or eartheraware vessel, into which pour a small quantity of nitric acid (aqua fortis,) in which put about a tesspoon full of the powdered ore, which boil in the acid for a minute or two. Then take some common salt, dissolved in water, in another vessel ; pour a small quantity of the salt and water into the acid ; if it turns white and looks milky, there is silver in the ore. The above is a cheap, convenient and certain test for silver.

Tee Tallow Tree.-Among the trees which have of late been extensively distributed in the worthwestern provinces of India and Punjanb is the tallow tree of Ohini-stillingia sebifera. In China it is largely caltivated, and it is said that by its produce alone the taxes are paid in the district of Hong Kong. It grows equally well on low alluvial plains; ar the rich monld of canals in $^{2}$ sandy soils, and on the acs clivities of mountain. From its seeds fallow and oil are procured, which are extensively used in China. Its wood is hand and durable, and its leaves yield a black dye. It is now tbriving well in India. The tallow and oil are exsility procured from the seeds. The tree, therefore, is well worthy of attention.

Gigantio Iron Castrisgs.-Referring to the huge anvil block, weighing trom 35 to 38 fons, cast by Messris. Fawcett ${ }_{j}$ Prestor \& Co., Liverpool, for astean hammar, to melt which two air-furnaces and two cupolas were engaged; the quantity of iron meited being 40 tons- the time required to casit, from opening the furnaces, being less than a quarter of an hour, a correspondent of the "Journal of the Franklin Institute" says : "This was a heavy undertaking, and doubtless the large number of ladies and gentlemert who assemibled to witness the operation of casting were lighly gratified at the beantiful spectacle. In a mechanical point of view, however, the casting of a similay piece at the Port Richmond Ironworks, Messrs. I. P. Morris, Towne \& Co., on July 1, shows a much greater capacity for doing this description of heavy work. The block weighs 31 tome, and to pour it $37 / 1 / 2$ tons of metal were melted in one cupola in four hours from the time the blast was put on. The quantity of air used in the blast was 4,000 cubic feet per mimite. The coal consumed was 1 f . for each 9 fibs. of iron melted. The mould was filled in four and a half minutes pouring. The work was done with the ordinary resources of the establishment, and without any display or assemblage of visitors."

Gorng Up Hill.-The Enterprise sayd that people are going up hill in Virginia City-climbing up the sides of Mount Davidson and Mount Ophir to stake off and fence building lots: However high an individual may have set his stakes, another is always found ready to drive pegs a rod or two higher. Proceeding upon this plan what is to prevent people from going with household goods to the highest peak of Mount Davidson.

## Califorinia Manufacture of Turpentine and Rosin

A firm in Marjsrille have recently commenced the manufacture of the above articles. They have 8000 trees in the fooc hills, and are now engaged in tapping them. They cal culate on an average yield of about 300 gallons of turpentine and 60 of rosin per week, from the above number of trees upon which they propose to commence operating. The recent advance in the price of these articles will no doubt render their maunfacture in this State a very profitable business for some time to come, and as very little capital is required to go into the business we see no reason why large quantities may not be made in this State-sufficient not on ly for our own consumption, but also for exportation.

In the above cunnection we clip the following interesting article on the produce of turpentine, from the Oregon Far-mer:-
The immense forests in North Carolina. which cover the sandy ridges between the swamps and. Water-courses, consist mostly of the !ong-leaf d pine, Pinus palustr's of the Southern States. From them is gathered one of the great staples of North Carolina-the turpentine. And although this product and its derivatives are, in our country, almost in
as common use as bread and meat, very little is known of as common use as bread and meat, very little is known of
the manner of procuring them. We will therefore endeavor to describe it accurately: These trees at maturity are seventy or eighty feet high and their trunks eighteen or twenty feet in diameter near the base. They grow close tngether, very straight, and without branches to two-thirds of their
height. Overhead, their interlocking crowns form a continheight. Overhead, their interlocking crowns form a contin-
nous shady canopy; while beneath. the ground is covered with a thick, yelluw matting of pine-straw, clean. dry, level, and unbroken by uudergrowth. The privilege of tapping the trees is generally farmed out by the land owner, at a stated price per thousand, say from twenty to thirty dollars.
Under this privilege the laborer commences his operations. Under this privilege the laborer commences his operations.
During the winter he chops deep notches into the base of the tree, a few inches from the ground, and slanting inward. Above, to the height of two or three feet, the surface is scarified by chipping off the bark and outer wood. From this surface the resinous sap begins to flow about the middle of March, at first very slowly, but more rapidly during the heat of the summer, and slowly again as winter approaches. The liquid turpentine runs into the notches, or boxes, as they are technically called, each holding from of quart to half a gallon. This as it gathers, is dipped out with a wooden spoon, barrelled, and carried to market. where it commands the highest price. That which oozes out and har-
dens upon the scarified surface of the tree is scraped down dens upon the scarified surface of the tree is scraped down
with an iron instrument into a sort of hod, and is sold at an inferior price. Every year the process of scarifying is carried two or three feet higher up the runk, until it reaches the height of twelve or fifteen feet-as high as a man can conveniently reach with his long handled cutter. When chis ceases to yield, the same process is commenced on the
opposite side of the trunk. It is estimated that one man opposite side of the trunk.
will dip ten thousand boxes.
will dip ten thousand boxes.
The produce is carried to market on a sort of dray or cart which holds but two barrels, cousequently the barrels oreart ways seeu setting about in the woods in couples. The trees at length die under these repeated operations. They are
then felled, split into small sticks, and burned for tar. The then felled, split into small sticks, and burned for tar. The
dead trees are preferred for this parpose, because when life ceases, the resinous matter concentrates in the interior layers of the pood. In building a tar kiln; a small circular mound of earth is first raised, declining from the circumference to the center, where a cavity is formed, communicating by a conduit with a shallow ditch surrounding the mound.
Uिpon this foundation the split sticks are stacked to the Upon this foundation the split sticks are stacked to the
height of ten or twelve feet. The stack is then covered height of ten or twelve feet. The stack is then covered
with earth as in making charcoal, and the fire applied through an opening in the top. As this continues to burn with a smouldering heat, the wood is charred, and the tar flows into the cavity in the center, and thence by the conduit into the ditch, or into vessels sunk to receive it.

Iron Bripges. - The French will aequire quite a celebrity for iron bridges. The Orleans Company is now engaged in throwing one over the left bank of the Scorff, an arm of the
sea which forms with the Blavet the port of Lorient. The sea which forms with the Blavet the port of Lorient: The
bridge will have a length of 1,100 feet, and will be composed of ten arches in masonry, and three spans comprising altogether 576 feet. The metallic part will be supported by two piers, established on a rocky foundation, at a depth of
sixty feet below the ordinary tides. When this great work is sixty feet below the ordinary tides. When this great work is way (that is, as far as Lorient) will be in a position to be opened for trafic.-London Mining Mag.
The Suez Ship Cayal, which is being cut through the Isthmus, to connect the Mediterranean with the Red Sea will be 94 miles in length, 260 feet in width, and 26 feet deep. The work upon this gigatic enterprise is rapidly approaching a completion.

Californin's Gold-producing Rival.
The Colony of Victoria, in Australia, must always have a peculiar interest for Californians. It is a great rival in the production of gold-our chief rival in the commerce and industry of the Pacific-the head of the British Anglo-Sax on Colonies on the Pacific, as California is of the Anglo American States.
The first permanent settlement, in what is now Victoria, was made at Melbourne in 1835 ; but the population continued to be small until the gold discoveries in 1851, three years later than those of California.
'The Australian gold fields differ much in character from ours, being mostly in deep diggings, wher the hydraulic hose and sluice cannot be us d to advantag , or where at least
they are not emploged so extensively as in this state. They were very rich at first, and for a time theyturned out a strean of gold more abundant than that which flowed from
the claims of California. But the auriferous deposits of Victoria appear to be approaching exhaustion wore rapidly than ours. During the last five years, the decrease in produc tion has been rery rapid. By a comparison of the gold exports manifested during the first five months and a-lalf of the
present year, with the corresponding terms of the seven present year, with the corresponding terms of the seven
preceding years we see an arerage decrease of eight per cent annually. In 1855 ; the value Was $\$ 41,658,100$; in 1856 $\$ 29,484,005 ;$ in $1827, \$ 25,384,225$; in $1858, \$ 23,860,815$; $144,69 \overline{5}$; and in $1862, \$ 14,340,785$. The total decrease from 1858 to 1862 is about sixty per cent. If the manifrst ed exportation during the remainder of the present year be at the same rate as during the first five months and a halt the total exportation will be about $\$ 30,000,000$. Victoria imports more grain, provisions and manufactured articles generally than does Califoroia, but it produces wool, copper ore and several other articles of export in greater abundance; and the proportion of the amount of gold sent away and manifested to that produced may be about the same in the wo countries.
The amount of land cultirated is 430,000 acres, one balf the amount in this State. Two-fifths of the title land is in
wheat, one-fifth in oats, one-filth in hay and green forage and 1,400 acres in vines. The average wheat crop this year was 18 bushels per acre; of barley, 18 bushels; and of oats, 23 bushels ; of wine, 300 gallons.

The population of Victoria on the lst of March, 1862, was 544,046 , of whom 322,346 were males, and 221,700 females. The number of aborigines is less than 2,000 . Of the total number, 138,000 were born in Victoria, 169,000 in England, 87,000 in Ireland, 60,000 in Scotland, 24,000 in China, 19000 in other Australian colonies, 2.554 in the United States, 10,418 in Germany, and 1,250 in France.
The rate of wages is less than in California Journeymen carpenters, masons, bricklayers and blacksmiths, get from 8
to 11 shillings $(\$ 2$ to $\$ 3$ ) per day, and pick-and-shovel men
shillings. House servants are usualy hired for long terms. Female cooks receive from $£ 35$ to $£ 50(\$ 175$ to $\$ 250$ ) per year, geu
£16 to $£ 25$.

## Weather Prognostics.

Rules for foretelling the weather have prevailed for a long period. There are allusions to them in the scriplures, "I hen Aud in the morning, It will be foul weather to-day for the sky is red and lowering.". (Matt. xvi. 2, 3)-Some of the early poets give various weather signs. Virgil (Dryden's translation) says :-
"Net weather seldom hurts the most unwise,
So plain the signs, such prophets are the skies.
A Greek poet by the name of Aratas, is said to have written a poem of 417 lines, on weather proguostics, upward of two thousand years ago. From extracts translated into English which we have lately met with, it appears that some of the weather signs by which we are now guided, are mentioned in this ancient poem. For example:-
"Examine attentively when the sun rises and sets. Do you not see the perihelion shive north or south, or even at both of these points at the same time? Beware of seglecting this observation; for when this phenomenon shows itself, evening or morning, at the moment when the sun touches
the edges of the horizon, it is a sign that the great Jupiter is going to send us tempests."

The phenomenon alluded to is popularly called "sun-dog" in this country, and is generally thought to indicate stormy weather. According to Aratus-"It is also a sign of rain when a cluster of stars appear indistinct as one. When the heron flies swiftly to the coast, with great cries, it is a sign of coming tempests; and also when sea-ducks and other aquatic birds rise in the air. When the clouds extend them-
selves, rise, and cover the sky with a grayish veil; when we selves, rise, and cover the sky with a grayish veil; when we
see in the air a double rainbow; when the rays of any star see in the air a double rainbow; when the
lose their brilliancy, we may expect rain."
Of signs to be drawn from the animal creation he says : "Often when it is going to rain you will see aquatic birds dip, and dip again, incessantly; you will see the swallow flutter around the banks, balance itself upon the waves, and; skimming the water with a light wing, dare at last to bathe
in it its plumage. The importunate roice of the frog will be heard with more power from the midst of the marshes the melancholy cry of the solitary owl sturtle the moruing, Again, he writes; "The ravens and the jays foretell rain
when we hear them, in large bauds together, counterfenting When we hear them, in large bunds together, counterfetting
the voice of the sparrow-halk."
On the whole, probably there is hat little new under the On the whole, probably there is hut little new under the
un, in regard to foretelling the weather, since this poet wrote his prognostics, twenty centuries and a half ago.

## Declension of Matrimony.

The Newburyport Heroll says that the ceusus statistics show that over tour-sevenths of the marriages in Massachnsetts are among the foreign born population. Why is it? For the most simple of rea-ons--the foreign born can afford get married, and the native cannot; and th.s must be, so
long as our extravagant modes of life continue. In social life there never was a people tending to deèper and more destructive social corruption-and that is most evident from the records of all the courts, and the columns of all the newspapers-than Americans. Once was the time when a wife was a "helpmeet;" now in a thousand of cases you
can change the "meet" to "eat" and make it read more truthfully.

We boast of nur system of education; we have female high schools, female colleges, female medical schools and female heavens. Our gipls are refined, learned; and wise; they can sing, dauce, play pianos, paint, talk French and Italian, and all the soft languages, write poetry, and love like Venuses. They are ready to be courted at ten years, and can be taken from sclool and married at fifteen, and divorced at twenty. They make sp endid shows on bridal tours, can coguette and flirt at the watering places. and shine like angels at the winter parties. But Heaven be kind to the poor wre ch that marries in fashionable circles. What are they at washing floors? $O$, we forgot: nobody has bare floor ow-how vulgar that wow king bread and boiling beef? Why, how thoughtless we are

- to be sure they will board, or have servants. What are they at mending old clothes? But there we are again ; the fashion changes so often that nobody has old clothes but the rar men and paper makers now! What are they at washing babies' faces and pinning ap their trousers? And here is our intolerable stupidity once more; baving children is left to the Irish! What lady thinks of haviug children about her now? or if she is so unfortuvate, don't she put them to wet nurses to begiu with, and boarding schools af-
terward? We repeat-we have come to a point where young men hesitate and grow old be'ore they can manry and afterward keep clear of bankruptcy and crime. What is the consequence? There are more persius leading a single life-are there more leading a virtuous life? It is time for mothers to know that the extravagance they encourage is destructive of the virtne of their children ; that all the foolish expenditures making to rush their daughters to matrinony, are, instead of answering that end, teuding to destroy the institution altogether.

Effect of Music on the Sick.-The effect of music on the sick has been scarcely at all noticed. In fact, its expensiveness, as it is now, makes any general application of it out of the question. I will only remark here that wind instruments, including the human voice, and stringed instruments capable of continuous sound, have generally a beneficial effect.- While the piano-forte, with such instruments as have no contiuluty of sound, has just the reverse. The finest piano-forte playing will damage the sick, while an air "H"me, sweet Home," on the most ordidary grinding organ, will sensibly sooth them, and this quite independent of as sociation.-Florence Nightengale.

Rabity of tae air.-It appears that the extreme rarity of the atmosphere in Virginia City is quite noticable. This is to be seen in the reluctant manner in which the smoke of the city rises and hangs suspended but little above the roofs f the houses ; also, it is very plainly perceived by the amount f panting we are forced to do if we walk briskly a few hun. red yards.

Fire.-A fire broke out in Virginia City on Friday evenng of last week, on the west side of $\mathbf{B}$ street, a few doors south of Union, which would probably have been very destructive had it not have been almost instantly discovered and as promptly subdued. It took from the stove pipe of a

Horse Power.--The "horse power," as applied to steam engines, is said to have arisen when people began to supercede horse mills with steam mills. The manufacturer would naturally enquire of the party desiring a steam engine, how many hores he wished to dispense with-hence the term now generally used, which is certainly more practical than scientific.

## To mining companies。

We earnestly solicit from mining conpanies and associations the fullowing blank statement, filled according to the data hersoy accompanying. The purpose for which we seek this inforuation is important to every citizen and stockholder un this coust; it would also be productive of beneticial results-i. u., inducing capitalists to invest in our mining op rations, thersby infusina new life and vigor into businest gene ally in oar sitates and Territories. Little, if anything, is known of our matallic wealth in Farope or the Fastorn States, hence we desire as much of the blank filled by you as may be interusting and instructive to the people of this State und those interested ahroad.

We knus of mo mining district in Rarope or America where this kind of infurmation is not willingly rendered by parties owaing property of this nature; and we know of no better medium fur makiag pullic the richness of our mines. We shall spnd blanks to mine and mill proprietors for every quarter, and will gladly publish the contents for the information of the community:

| Titte at Coungatiy ami banats of afficers for the year. |  |  |
| :---: | :---: | :---: |
|  | per sharo. | When incorporated |
|  | - |  |
|  |  |  |
|  |  |  |


$\left.\xrightarrow{\text { Location. } |$|  Average nssays  |
| :---: |
|  of ore.  |$}$| Process emplayed |
| :--- |
| und number of stamps. | \right\rvert\, Gencral remarks,

PALMER, HANSCOMB \& CO;

## Golden State Foundry and Machine Works,

 Furst Street, neax Market, san Francigeo, Cal.$\mathrm{R}^{\text {ESPECTMLILT SOMICTN ORDERS for all kinds of MACHINERY, }}$ Hiawing the mowt complite arrangememes and nppointments for finishi and executiog any and all kinds of Cistiogs and Machluory on this Chast San Francisco, November 29, 1882 3 m

## Attention! Attention!

A tract of land, eybracivg ivarea of 400 acris, has recent. Anle on renoovable termasas any ever oftred ly the warinus- Honnestead Assale oa rensouabe termsan any ever oknren ay the varinus. Hunestead Asvey "" and derives its mome from the fact that the Directors of the Univermity College have relectedin site of about twenty acres th the centre of tho
eract for their College Buitding null Park- This properly is more beautiful
 places of resilence. That this property will increase in vaiue, is as certuin ${ }_{3}{ }^{3}$ the furuture of sin Fraucirco

Investruents in Real wiate it is well known, have paid as largely as any other, and iisurance ugaiust rists of depre
sure and rapid increezso of our population.
in widd-eat micing stuck, or loaniug money that may be paid in depreciate
curreacy. The prices for lots in the above tract w'll remain uniform until after the holidays-that is, without interest. The title to tho laud is perfect.
For fort For farther particulurs apply 10
HARVEX S. BROWN,

Na. 19 ' Naglee's Building.
Lithngraphic Maps enn be seeu and liad at the ubnve named oflce.
no 13 mpo $\begin{array}{r}\text { no } 136 \mathrm{mo} \\ \hline\end{array}$

## DEETKEN'S

Chemical and Metallurgical Works, ON SAN BRUNO ROAD, ISLATS CREEK, san fbancisco.

Clear gold brartig sulphurets worked at \$20 per ton. C ALL ThE Gow Extracted by Chumical process. Yield of Silphurets Aser Amarutus for separating sulphurcts sct up by experienced hands ut
 ter required for the purpose.
nov8-3m

## JULIUS SILVERSMIT'H,

## COMIMISSIONER FOR INEVADA TERRITORY,

office, in late statie capitol,
Corner of Battery \& Washington sts., Room 23, up stairs.
We wodld respecticlly solicit from those who have bos
 the drawiug up of affinarits, ncknowledgments, the taking of testimony, ele.

## W. T. \& J, GARRATT,

BRASS \& BELL FOUNDERS, Cor. Wirst \& Maxket stise, opp. Oriental Hotel, Market stse, opp. Orie
SAN FRANCISCO.
 BChurch and Stamboat Rells, Tayern and Fand Bells and Gongs, Hose
 furnished with fittings, sce.; COUPLING JOINTS of $\Delta$ LLh sizas. Manufacturers of "Garratt's Pateut Improved Journal Metal.'

## LEANDER RANSOM,

CIVIL ENGINEER AND SURVEYOR,
Having been connected with the public surveys of the State of Ohio for 20 years, and the public works of the State of Califoraia for 7 years.

## also, state locating agent.

## And as such having the sale of

600,000 ACRES OF THE STATE SCHOOL LANDS, at the low price of $\$ 1,25$ per Acre.

## Terms-T

everal yedrs.
OFFICE: sicond fioor of Express Building, N. E. corner of Montgomory
Oh California strects.
-

A GENCY FOR PATENTS.-The undersgned having been long es neluts for attending to the interests of inventors at the Patent ofice in Washingtom, offer theor services for the securing of Caveats and patent with patented inven the sales of Patent Rights, asd to all matters connect whth patented inveations. WETHERED \& TIFFANY, Office, 410 Montgomery street.

CHARLES R. BOND, (Late City abd County Assessor.I REALES'IATE AGENT 410 Montgomery street, San Francisco. REAL ESTATE PURCHASED AND SOLD, LOANS NEGOTIATED

> Washoe Stock Hoxchange,
> N. E. cor. Montgomery and Merchant sts., SAN FRANCISCO.
L. W. NFWELL \& CO.,

Buy and sell Washoc, Esmoralảa aud other Mining Stncks and Securities sep20
THEODOR KALLENBERG,
MAKER OF MODELS for Inventors,
ACHINES, MATHEMATCAL' Optical and Philosiophical Instrumemts
Sicales, Weights, eto.; Steel Stamps, Djes aud Dio Sinking, Embossing Stamps. $\quad$ Repairing of Machinery promptly attended to. 84.3 m
(No. 4 Sansome street, cormer Market, San Francisco..

## DEVOE \& CO.'S

STFAM ENGINE
MACHINE WORKS,
Corner Market \& Fremont gtreets,
AIL KNDS OF MACHINERY, SUCH AS STEAM ENGINES, SAW MLLL
BCatting A GRICUL
$\mathrm{A}^{\text {GRICULLURAL MACHINERY of all hiods made and repaired. }}$
Threshing Teeth made to order, on the most ping Machines an Threshing recth made to order, on twe most reasonable terms. cheap. Scrow-Cutting Turning Lathes for sale.
jels

## Latest improvement

In L.ADIES' BUCKLES
M. Reichel RESPCTFULLY ANNOUNCES TO THE LADIES OF THIS mportate, as well as to Jewelers and dealers in Jewelry, that he has made tore made. Their simplicity, commodiousiess, and beauty render them the most useful as well as ornamental trinkets.
Orders from the country respectfully solicited. For particulars call at or address, FREDERIK REICHEL,

Manufacturing Jeweler,
sep11
620 Merchant street, San Francisco.

## NEW ENGLAND SEWING MACHINE for $\$ 25$

THIS MACHINE stands confessedly at the head of everything now before the public. In cheapoces, neatuess, compretness, durability and beru-
ty, it has no rival. It it made with special reference to the wants of a family, and any one wow hours. It will work from leather to the floest cambric without the cllange of needle, tension, or feed. It gives the best satisfaction where it is sold, and all who use or examine prononnce it better adapted to
meet the wants of every family than any other machine now offered to the meet the wants of every family than any other machine now offered to the public. Guage and hemmer aitached.
Every machine warranted, and kept in order free of charge. This is th
only cheap machine that will do all kinds of family sewing.
Repll
W

THE FOLLOWING GOODS TO BE FOUND AT
IH. D. PEAHCE'S:
Gents' Heavy Gold Cases, different patterns ;
Ladies' Heary Gold Cases, do do ;
Gcld T'elescopic Pen aud Pencil Case:
Extension Screw, Heavy Silver, for Gents';
Extension Screw, Heavy Silver, for Ladies;
Silver Extension Cases ;
Silver 'Telescopic Cases;
Screw, Silver and Ebony Desk Holders;
Slide Silver and Ebony Desk Hulders ;
Reverse Silver and Ebony Desk Holders;
Pen Holders, Silver aud Ehony;
Pen Holders, Gold and Ebony
Pen Holdens, Gold and Ivory;
India Rubber Propelling Pen and Pencil Cases
India Rubber Propelling Pencils, short.
All the above gonds are made to order and warrnnted; will bo sold cheap for eash. There are some thirty different patterns, leaving an oppor wnity for parties to select and bo suited.
A cheaper class of Pons direel from New York, at wholesale only.
Gold Pens coustantly on hand. Gold Pens repnired.
auJ
606
H. D. PEARCE,

606 Montgomery street, between Clay and Merchant, up stairs

## GREATREDUCTION <br> in prices. <br> STANFORD BROTHERS,

121, 123 and 125 Califomia Street,
KEEP THE LARGEST STOCK OF ALL KINDS
Lamp ${ }^{\mathrm{OF}}$ Stock,
And will Sell Cheaper than any House in this state LAMPS,

CEMNNEYS.
CAMPRENE, BURNING FLUTD,

ALCOHOL,
turpentine,

COMET ILLUMINATING OIL.
SPERM OIL,
LARD OTL,
MACHINEBY OLL,
RAPE SEED OIL
CHINA NUT OL
LUNEEED OIL, Raw and Boilod, polar oil

SEARK'S OIL,
SEATSTOOT OIL $\qquad$ sc., sc., \&o.
Our customers in particular, and the cnuntry trade generally, are requested aseertain our prices before purchaning from traveling agents, as we will
apletf
sell at less rates than they can afford to.

PHILADELPHIA BREWERY, ad street, corner of Folsom, San Francisco; Citu.

## Holscher, \& Wieland Proprietors,

Thankrul for past patronage to a discriminatiog public, we beg leave bove well known Brewery has been permanently located in our new prem" ses, on second street-the former residence of Capt. Folsone where we shall endeavor to continue in furnisbing our numerous patrons with the best ar-
nide " Bier " We shall strive to perveturte the good reputation for icle of "Bier." the faithful excoution of orders as heretofore, and thereby increase our custom:

FULTON FOUNDRY AND IRON WORKS.
HINCKLEY \& CO.,
MANUFACTURERS OF STEAM ENGINES,
Quartz, Flour and Saw Mills; Cast Iron Fronts for Buildings,
47 \& 49
BET. MARKET AND MISSION, SAN FRANCISCO
ALL kinds of Irom and Brans Castings furnished at Short notice. Every style of finishing to Iron when cast. Repairing to Machinery neatly done D. B. HINCKLEY WM. E. WORTH. WM A. FIELD

SQUARZA'S PUNCH.
HOME MANUFACTORY.
No. 44 Leidesdorff street, near
Branch at 408 Montromery street.
A. S. ROSENBAUM \& CO-Importors of pure Havana Cigars, Tobaceo,

# Hflining and Srientific 1 Iress. 

W. B. EWER,

Editor
Saturday
DECEMBER 13,1862
The MINING AND SCIENTIFIC PREAS is published at the Federal Building, Room 24, corner of Battery and Washingion streets San Fran-
cisco, Cal.. at FIFTT Crnts pcr month, or $\$ 4$ per anuum, in adrance. Advertisements, Fifty Cents per line. A liberal diecount made to quarter vertisersers.

## Fingravings, Electrotypes, ete.

Ws execute at this Office Engraviugs and Iilustrations on wood, stone Wopper, steel, etc. StzREOTPMNG and Electropriva, Designs of every des eription-Buildiugs, sketch

JOB WORK-executed with dispatch at the chempest rates.
Patross will remember that when we execute engravings we will insert Patrons will range in the Mising and Scientric Press, thus, giviug the ad rantage of a Wide Circulation throughout the Pacific Coast in the best Adrertising Medium to be found mthe country.

HHE TAE KAW-LEGISLATIVE BLUNDERING.
By the telegraphic report to the Associated Press, pub lished in the Buletin of Saturday last, we are told under the head of Congressional proceedings, that "The Committee of Ways and Means will probably hold a meeting to-day [Dec. 5th] to consider certain propositions of amendments of the Tax Law, believed to be necessary for its successfal operation.

Here is a plain admission by the law makers themselves, that the Tax Law, passed at the last session of Congress, and which the Federal Tax Collectors are now endeavoring to enforce, is inoperative or unjust; probably both, in some of its provision. This is a fact that our mechanics, hereabouts, and business men generally, have seen from the time of the first promulgation of the law. It is to be regreted that so few mechanics and thoroughly educated business men are elected to Congress and our various State Legislatures. It is only by the election of, at least, a few such men, that the great Manufacturing. Mechanical and Mercantile interests of our country can be truly represented. Those interests will ever be imperfectly represented so long as mere politicians, and third rate lawyers-men with scarce a moity of busipess qualifications are elected to represent us in the halls of Legislation; The bill in question affords abundant evidence that it was prepared and passed by persons unacquainted with machinery, manufactures, and business generally. For example :-

Uuder date of October 9, Commissioner Boutwell writes to a gentleman in Baltimore:-"Your letter of the $2 d$ inst., containing inquiries as to whether the tax uader the excise law is laid both on castings and finished machinery, without reference to the fact as to whether the component parts of said machinery have been previously taxed as castings or not, is received.

I am of the opinion that the view talken by the manufac turer is sustained by the law. Castings are liable to a tax of three per cent, unless otherwise provided. When suld by the manufacturer the tax must be assessed and paid If afterward these eastings are assessed as component parts of other articles, the latter (that is the articles) pill be assessed without regard to the fact of previous pay ment."-New Yorlc Times, Oct. 16.

By this decision it will be observed that castings which are made at one thop and carried to another, belonging to a second party, and then put up into a complete piece of machinery are twice taxed, once at the shop where they are cast, and again at the shop where they are put together, as the component parts of an entire machine. Now this certainly cannot have been intended, or if so our law makers have been legislating for the beneft of large capitalists at the expense of smalier ones ; for instance :-

In the decision as given above by Gommissioner Boutwell, and the comments we have made thereupon, it will be observed, that large machine shops and manufactories, which are provided with foundries, pay a single tax upon their products that are composed partly of cast and partly of wrought metal while the small manufacturers of such articles pay a double tax on their castings. There are many small machine shope, the proprietors of which purchase their iron and brass castings from separate foundries, and fit up these castings, and combine them with other parts made of wrought iron and steel, Now the castings which they purchase are taxed three per cent, and their finished work is assessed at three per cent uponits whole value, of course their castings are taxed twice. On the other band, a large establishment is which machinery is manufactured, and
has a foundry connected therewith, escapes the tax upon their castings, \&c. Their castings are not taxed, as such, because not sold separately. This tax will inure entirely to the benefit of large machine establishments, and tend to the ruin of smaller ones.
This law also falls injuriously on other classes of manufacturers, and, in most cases is entirely, shifted, iu fact, from the capitalists, on whom it was intended to fall, to the poorer classes or the consumers; as for instance the tax on gas, in many cities has been directlly levied, by the companies, upon their customers, the consumers, who, in addition to their regular bill of so much to the number of feet of gas consumed, now find a little item of federal tex added to the usual amount. Now such a thing wrs never intended by the law makers-They have blundered again. We know not how the gas tax is paid in this city, but according to the New York "Gas Light Journal" that is the way some of the Eastern companies are paying their taxes, while others more patriotic, willingly submit to the true intent of the law and pay the tax themselves, as corporations. This plin of "shifting the responsibility" is very generally, (though oftentimes indirectly) practiced by manufacturers of all classes, to the detriment of the consuming and laboring people.

We judge from the item in the telegraphic dispatches of Saturday, alluded to in the outset of this article, that it is in part to obviate these evident abuses of the tax law, that the Committee of Ways and Means are about revising the same. We trust the Committee will have the good sense to consult some well informed practical men-merchants, mechanics and manufacturers-in their proposed modification thereof. It is not for the interest of the manufacturers that the burthen of taxation should fall upon the ponrer classes, neither do they, as a body, desire it. Their only wish is that they should be protected from the sharp practices of a portion of their own number, so that the burthen may fall equally upon those for whom it was intended-and upon those only.

## THE NEVADA INCORPORATION BILL.

We have said nothing heretofore upon the Incorporation Bill now pending before the Legislature of Nevada Territory, for the reason that having taken upon ourselves the management of the Press siuce that bill came up, and having many pressing dulues meapwhile crowding upon us, we have not had time te give it that attention necessary to a thorough knowledge of its provisions and probable workings-in fact we have been unable to find time to read the bill. We notice that there appears to be quite a contrariety of opinion regarding the bill among Washoeites themselves-the Territorial Enterprise being warmly interested in its favor while its contemporary. the Virginia Union, is decidedly opposed to its passage. We beli ve the bill is now pending between the House and Council. The following paragraph from an editorial on the propriety of the passage of the bill, which we clip from the latter paper, appears to us to be a correat view of the question:-
What should have been done in this connection was simply to pass a domestic incorporation law, leaving parties hereafter to incorporate under it, or under foreign law, as they might deem expedient. To close down so harshly and abruptly upon all corporations elsewhere formed, is not only unjust, but contrary to international courtesy and the prac. tice common amongst all enlightened commercial peoples. All we realy need at present is a law providing for domestic corporations, so that our citizens can organize at home or go elsewhere. as they may see fit. The question of foreign corporations should have been left for future legislation, when the light of exberience would have enabled us to adopt such measures as seemed necessary and just. A local law would have answered every purpose for the present, and sared us from the charge that will elsewise lie against us, of actiog in vilution of good faith and the comity of States. Of the same character is that clause demanding that the annaal election for trustees shall be held at some point within the Territory of Nevada.
The Volcanic Smelting Furnace.-The S. F. Call says snccessful experiments in reducing copper ore are now being made in this city with the Volcanic Smelting Furnace, a reecntinvention by Mre. E. J. Hall. Half a ton of the ore was vitrified and the metal running in less than an hour yesterday - the only fuel used being two bushels of charcoal to one bushel of rock. Specimen bars of copper from this furnace can be seen at the offices of Col. J. D. Stevenson and T. Ogg Shaw, in this city.

## COPPER.

The prospective value of the copper interest to this State and city can scarcely be overrated. 'l'he discoveries already made render it certain that millions of dollars must exe long be employed in working these mines, and large amounts of capital must also be invested in this city in the erection of machinery for rednction aud smelting; for no one can for a moment suppose that San Frane sco will long permit the transport from her wharves of the immense amount of copper ore which will soon seek a foreign market for its reduction, unless the necessary facilities are afforded at home. The copper mines of Calaveras, only forty miles from this (ity and within eight or ten of steam navigat on, are already assuming an importance or no ordinary magnitude. Over half a million dollars' worth of ore from these mines has already passed through this city for Eastern and European ports, and large amounts of foreign capital are now in this city seeking investment either in the mines themselves, as working capital, or ready for investment in the purchase of ore for foreign shipment. Our own capitalists are also buying and shipping for the Eastern market, to a limited extent, however. There is do class of mines which more readily commands capital than copper, nor any which dispenses more important local benefits to the community where they exist. They contribute far more real wealth than either silver or gold mines. We may safely predict that the copper mines of California will soon rival in importance the silver mines of Nevada, adding many millions, annually, to the real and personal wealth of our State. Many of the claims in Calaveras County are already held at a high valuation.

In our last issue we gave a general review of the extent and progress of the copper mining interest of the State. We shall continue to lay before our readers, from time to time, whatever news, of interest, transpires in relation to this growing hranch of industry. During the week we have noticed the following items:-
The Stockton Independent of Dec. 2nd, says in relation to the progress of Copperopolis:- "The Union Company at Copperopolis is now working with three engines, running night and day. The Keystone, Empire and Calaveras claims are giving out better prospects of late ; and the Webster, a new claim, under the management of Capt Sanders, is coming rapidly into importance. Schools, Sunday schools and religious societies are taking root at Copperopolis, and altogether the town is acquiring a degree of permanence and character bardly to be expected of a place whose foundations were laid but two years ago."

The Stockton Republican of the 4th instant, notices a rich copper strike as follows:-"During this week the men employed in prospectiug the Beauregard Company's cupper claim in Calaveras county, have struck some very rich rock, paying over $\$ 60$ per ton. The rock is in abundance, and the mine has every indication of becoming richer and more extensive as the shaft and prospect progresses. This is cheering news, as all the shares are held in this county and a large proportion in the city.

Meeting of Nevadans.-A large and respectable meeting of residents of Washoe, temporarily sojourning in San Francisco, was held at the Russ House, in this city, on the 8th inst, to take into consideration the proposed Incorporation Law, for Nevada Territory. After much and careful consideration the meeting adopted an address, or petition to the Territrial Legislature, setting forth, as the opinion of the meeting, that the law, as proposed would operate most disastrously to the interests of the Territury, and asking that the same may not be passed into a law.
It appears to be the general impression, both here and in Virgin'a Gity, among business men, that the passage of the law will have a tendency to restrain San Francisco capitalists from investing under it; and that capital now moving in that direction will be drawn toward the mines of Sonora. If the tide of mining trade toward Nevada should receive a chock by reason of the passage of such a faw as the one proposed, it will prove most disastrons to the now flattering prospect of that new Territory.

A Tunswe, after the manner of the Thames Tunnel is now in process of construction under the river Indus to serve as a road way for the great railroad now being corstructed between Calcatta and Peshawar.

## MINING AND SCIENTIFICPRESS

## WASHOE MINING INTHELIGENCE.

We conder se the folluwing items from the Washoe papers, chiefly from the Territurial Eute prise:-
It is thought hy many business men in Virgiaia City, that the nills now in operation there will be insufficient in number and capacity to crush all the ores that would be raised hero next season. The argument is that in the whole range from Cedar Hill to Gold Hill, a distance of nearly two miles, nearly every company halding ground are on their veins and will very soon be taking out pay rock, all of which must be reduced by somebody, and the mines already open are capable of supplyng what mills there are at present in the country. The Editor of the Einte prise thinks it. will be the wisest plan, however, for capitalists to defer the further erection of mills until the actual demand is seen. Next spring will be soon enough.

Large amounts of Gould \& Curry rock are still being erushed in the mills at Gold Hill and Silver City. The Central mill is also working upourock from that mive and turning out hesvy yields of silver.
The Mariposa mill has just cleaned up about four hundred pounds of amalgam. This ruass of metal is principally silver, the ore worked being from the Gould \& Curry mine.

Ophir Iaprovemants. - The Ophir Company have erected a very neat brick building just above the old Epanish stone house, intended for the Superintendent's room and offices for the Company. About fifty yards further north they have put up a stable, 32 by 72 feet. This latter is also a good building, well gravel dinside. These improvements are on the Company's claim.

Hoisting Housfs.-Along the line of the Comstock lead from Virginia City to Gald Hill, says the Enterprise, are a number of factory looking buildings which the stranger would be puzzled to comprehend. Smoke stackz protrude from their roofs; jets of steam spurt in intermittent puffs from their sides; but about them a stillness reigns that forbids the possibili'y of their being quartz mills. What then can be the work so silently performed by these laboring engipes ? Their work, weanswer, is not the noisy surface clatter of the reduction works; their labor is far below the surface of the earth in the dusky shafts that leadinto the dark bowels of the deep burried mine. There, day and night, they struin at hoisting up to duylight the gleaming ores of the black galleries below. These are looisting bouses.

A Few new buildings are still to be seen in process of erection in various parts of the city, but they are more scattered than a fortuight since.

Tur Ironsides.-The shaft of the Ironsides Company, on the Vermillion ledge, is down vinety feet. They are now drifting into the hill and taking out a good lookivg quality of white quartz, intermixed with a large proportion of the chlorine substance so abuadant in the Ophir. This company hope soon to be taking out first-class rock in sufficient quantities to ruv a mill or two. The company is located much higher up the mountain than the Comstock, so high, in fact, that it was thought at one time a thing almost incredible that paying ore should be found at such an elevation above the gieat zone containing the Virginia and Comstock leads.

The Pionefr Company after striking their ledge, have had to commence a drain-tunnel on account of water coming in too freely. This tunnel commeaces just below the Vermillion tunnel, Virginia ravine, will be 700 feet long, will strike the lead at least 300 feet below the surface, and about 150 belaw the first tunnel run. It is thought the new tunnel will not only drain the lead thoroughly bnt develop a better quality of ore.
United States Air Suaft.-The upper air shaft of the United States tunnel, on the ridge south of Cedar Hull, is now down nearly two hundred feet. It will be two hundred and forty feet at the point of its intersection with the tunnel. It is sunk in such a manner as to pass down about twelve feet south of the tunnel, and the two will be connected by means of a short drift. By sisking to one side of the tunnel and drifting into it all danger of rocks falling upon the workmen pas-ing along the tunnel is obviated. After the completion of the air shaft they are at present engaged upon, the company think they will be able to drift into the hill to their veins withont the expense of sinking other shafts for ventilation.

Iowa Shaft.-The shaft now being sunk on the Iowa, in
the northwest part of the city, has reached the depth of one hundred feet. The shaft is buarded up and divided into two compartments and the dirt is hoistod by means of a windlase with a double rope und two buckets. The company do not expect to strike their vein before the shaft ohall have attained a depth of one hundred und fifty feet- The rock now coming out is of a tolerably hard, blue quartzose species, containing iron pyrites io considerable quantities.
Pay Rock in Amfrican Flat.-The Enterprise is assured by an eye-witness that the Baltic Sweezy Company, south east of Gold Mi.t, and in the north margin of American Flat, have struck a fair quality of ore in their claim. They have a shaft down 160 feet in the lead, and are taking out rock resembling that of the Eliza Bradley on Sauta Rita claims - galena with sulphate of silver.
First Mila for Patmyta.- A lot of lumber went out to Palmyra district last week, to be used in the construction of a mill for the Yuba Company, or at least a mill for crushing the ore of the I uba lead. This is only the beginning-the first of many mills that will be erected in that district at no distant day.

Spanish No. 2.-Spanish Company No. 2 have erected a building over their engine and hoisting apparatus twenty by thirty feet in size. The builling was raised, nelosed and roofed between sumrise and sunset of the same day. In two days more the pumps and hoisting machinery were at work. Dava Mill.-The Dana mill is well nigh completed. It will be running in about a month. They have on hand a large stack of fuel, mostly nut pine, from the timber trees east of the Carson.
The Sierra Nevada Company have quite a lot of heavy timbers on the ground for use in their mine, and are receiving still more. Their timbers are brought from the foothills of the Sieria Nevada range.

The New Play, at the American, by Dr. Bein, has proved quite a success. The scene is laid in Italy. The business is good, and the interest of the piece well kept up throughout. The p'ay is pronounced by good judges, not only original. but very excellent, and one well worth seeing. It has been performed twice and will be again presented, this evening for the benefit of the author-which we trust will be a substantial one.

A new toll road between Virginia City and Gold Hill pierces a high hill through a tunnel 180 feet long.

## Mining Stock Report

SAN Francisco, Dec. 12th, 1662.
Ophir - Sanborn's Circuinar of last week quotes sales of 468 shares of Ophir
Stock at rates from $\$ 2400$ to $\$ 2750$ per toot. The sales ut the Boiard for the weok bave been very uniform-from $\$ 2450$ to $\$ 2455$, baving dropped somewhat from last week.
Gould \& Curry,-Fifly sbares were sold last week for $\$ 2550$ and 40 for $\$ 2560$, 1st Janurry. The sales the Dosid for the present week are quoted at from $\$ 2,475$ to $\$ 2,500$.
Contral. - 36 shares were sold $n t \$ 1,425$ and the same numbor subsequenty at $\$ 1,600$ as per Sauborn's Circular.
California, after remaining quiet for several weeks is quoted at $\$ 1,200$, an advance of $\$ 100.240$ sliares sold for $\$ 1,260$, 1 st of March.
Cholar is rapidy adivancing and is quoted at the Stock Board from $\$ 305$ to 350. $\$ 500$ was asked on Wednesday.
Potosi has been but litlle enquired

Potosi has been but little enquired for. Small transactions are quoted at from $\$ 75$ to $\$ 85$.
North Potosi is quoted at $\$ 7$-orfered at $\$ 750$.
Sierra Nevada is quoted at to 865 . 40 shares changed hands at that figre, last week.
Daney is quoted at $\$ 180$ bid 200 asked. A binght falling off.
Burning Mascow is quoted by Sauborn's Circular at from \$63 to \$65.
Mount Darideon is selling for $\$ 5$ 60- $\$ 6$ asked.
Meredith is not quoted. \$25 ja asked.
Burnside is not queted.
Towa quoted at $\$ 150$.
Norton is quoted at $\$ 20$. Forty shores changed hande at that price. Sacramento is quoted at $\$ 20-\$ 3250$ is abked.
Lucerne is not quoted.
Eale and Norcross is quoted at $\$ 250 \$ 300$ afked. No sale roported.

Lady Bryan-no sules quoted.

## Esmeralda Stocks.

The Wide West is ntill advanemg, and is quoted at from $\$ 400$ to 410 .$\$ 420$ ia generally asked.
Antelope is quoted at $\$ 70$-with $\$ 100$ asked. Sold at tho Board, on Thurs-

## ay for 100 dollars.

Etion is notquotod. \$8 is asked.
Silver Hiil ls quoted this week at from 12 to 14 dollaras.

Ltall has buycrant s18-held at $\$ 26$.
Roal Del Monto quoted al $\$ 20$ with $\$ 2.6$ asked. An advanco of $\$ 8$.

## Coso Stoclss.

The Josephlne haid bliders, thelpuast wrwk, at the Stock Bourd at from $\$ 15$ io \$16. - Heldora asking \$20 to \$22.
Coro- 12 to 13 at the Bmanil- $\$ 20$ nakad.
Whllow Spriges-queted al $\$ 15$.

## Mroxican Miner.

St. Nicholas Silver Mining Co. is quoted by sudborn'n Circular at $\$ 100$. caslina Prieas finda nu recent buyers, but la huld firm at 8120. 4 Dioo Padre le quoted at from 30 to 33 dollars.

## WASHOE STOCK REPORT.

## [Cornpiled ofliefly from the baiy Territorial Enterprise.]

Very little Stock is now beiog offered for sale io Virgluia City. Sevoral parties have recently withdruwn their ntucks from the market, preforing to Lurrow moncy at a high rute of interest rather than sell at preceot pricen, The low ratey now ruling present a mous faynrable nppor zunsty for profiable speculation, as money can scarcely be iuvested, nt this tume, in atocks which will not anon advaueu to a very high figure over that at which they are now belling. The conthuance of pleusant weutber causes the impreasion to pre vull that we are to have ou opeu wiuter, and oue highly favorable to min ing operations.
The La Crosse Company, it is reported, havo struck into the same rich ore as that how iu difputo between the Moscow and Madison Companies. Ajknowledgeof this will probably cause rome activity in that stock.
Norton sturk is, just uow, withuut demand. The satne development of rich ore which this Compmay has mate during the past fow weeks would, at a more favorable scason, have caused ready sale for their stock at three Limes its present rates.
Oriental. -Several amall transactions took place in thla stock, last week, at low rates.
Mammoth Ledge. Considerable ground in the Mammotir Ledge, Eagio District, is oficred for sale. Some two years since a great excitement was District, is offered for sale. Some two years aince a great excitement was
created in consequenec of the rich rock from this distruct. Tho entire diacreated in consequenec of the rich rock from this distrjet. Tho entire dis-
trict sppeared like obu continued mass of raluable ore, but after some lit-triet sppeared like obe continued mass of raluable ore, but after some lit--
the prosuecting, with ad unfayorable result the district was comparatively the prosuecting, with av unfavorable result the district was comparatively
deserted, it being impossible to find any well defiled ledge. It is athi thought by many that valuable discoveries must be made in that neighborhood.
Baltic was olfered, on the first instant, for $\$ 25$ per foot.
North American was enquired for, at same date, at \$5, but no trausacetions are quoted in either.
Sacramento.-Thirty dollirs was offered on the 1st. The rock of this Compaby's ledge is eaid to be very rich, though but ittle gold is to bn seen on the surface. The Enterprise of the Eth justunt notices a fine specimen from this ledge, on exhibition at the door of Paxton \& Thoraberg's Banking Houre, in Virgiuis City. The specimen weighs 600 Jbs.
Eome very rich roik has recently been struck at the toot of Cedar Hill, which has the appearal ce of veing a regular ledge. Several clams have been lecated on the Fiorth and South extensious of the Company making this discovery, who have taken steps for the prospecting of their claims, a work which will snon deciee whether tbe discovery in question is a ledge or merely i slide from the hill above. The discovery appears to be nttract ing considerable attention, and tbe discoverers are venturing the wildess ing considurable attention, and tbe discoverer
Ironsides.- The late activity in this stuck has aubsiôed. The demand for it bas censed, and the stnck bas been withdrawn.
The Tunnel stucks seem to be mectivg with much favor.
Mount Davidson und Cedar Hill are firm at San Francisco quotations. Sinme enquary is made for Unired States.
Wat erhouse-20 feet sold at $\$ 350$ per foot.
Gay-10 feet sold at $\$ 3$ per foot.
Union-is enquired for at $\$ 5$ per foot. This comn by havea iargeamount of rock upon the surface wlich has the appearainh of being rich, but still it is thought caunot be worked to a profit. The veln, however, 1 mproves with its depth, and the Company will no doubt boon develope a valuuble mine.
The Yellow Jacket is taking out valuable rock, which is puying a handsome prost-and, as a consequence, their stock is considerably enquired af ter, but at such rates as the holders persistently refuse to accept.
The Crown Point Miting and Mill Company appear to be doing a thriving business. Their mill is kept constantly at work upon rock from their mine. The Palmyra Dlggings,-Favorable accounts coutinue to be received from these Diggiugs. Several Comprnies are taking out ore, which is being these Diggitgr. Several Comprnies ares.
crushed with very satisfach. y resnlts.
crushed with very satiglach, y resnlts.
Nevada.-Six Dollars per fuot is offered for this atock; but none changes hands, holders firm at higher rates.
The Yolo Company which recently suspended operations on their tunnely have recommenced the work of extendiug the same to their several ledges. It is thought that ono bundred feet of extension will reach their first ledge. Belcher is enquired for at $\$ 10$ per fuot. This Company is located immodiately in front of the Crown Point ledge. Their stock is begining to attrant some attention amoug buyers.
Ten feet of Birdsall changed hands for $\$ 16$ per foot-a slight advance over last quotations. This mine has been opened at the surface, also at a depth last quotations. This mine has been opened at he surface, also at a depth
of 75 feet, and again at 100 feet. They bave proved that the vein is conof 75 feet, and again at 10 feet.
stantly improving with its descent, and hare now let a contract to open it stantly improving with its descent, and hare now let a contract to open it
bifty feet deeper still, from which point they propose to commence active Gfty feet deeper stil
mining operstions.
mining ouerstions.
Bloomingdale sold for $\$ 460$ per foot-ten feet changed bands.
Zouave is offered at $\$ 10$ per foot. This Company is now taking out fine ore, such as should grently ellhance the value of their stock. ore, such as should grenty emhanco the value of their stocks. ${ }^{\text {Y }}$. Ten dollars are offered for Eureka without finding buyers.

The following stocks, not enumerated above, aro in the market in Virginia City, aad held at the figures annexed :-


GIFTS, DONATIONS AND SUBSCRIPTIONS
To the work entitled "The Metalic and Agriculura
Wealth of the Pacific States." The publisher desires
to thank the several gentlemen whose names are hereto appended, for their mrgnanimity and aid in behalf of this important work.
Samuel Branaan, Esq., Citizen.
John Parrot, Esq., Banker.
Hyalu Joseph, Fisq., Citiz n.
Ira P. Rankin, Esq:, Collector of Customs.
S. H. Parker, Esq., California Postal Agent
S. O. Bradshaw, Lsq., Pacific Metallurgical Works.

David Henriques, of the Board of Stock Brokers.
Rer. Dr. E. Cohn,
Rev. Dr. E. H. Bien.
I. M. Mugarietta, Mexican Consul.
H. Meyers, Citizen.

Henry M. Hale, City and County Auditor.
Dr. J. C. Tucker, of Steamer Moses Taylor.
Dr. J. W. Tan Zandt.
Harvey S. Brown, Attorney and Counsellor
Williain Schmolz, Coiner, U. S. B. Mint.
James Hitehens, Sup't of Willow Spring Mine.
G. F. Deetken, Supt Metallurgical Works. etc.
ete.
etc.

Botler Explosions.-Much is said in reference to boiler explosions about super heated steam, peculiar gaseous formations, and other conditions and cirenmstances, supposed to be entirely beyond ordinary control : yet the question has often been put and never yet answered in the affirmative"Did any person ever know of a boiler explosion when there was full evidence that every thing was right about the quantity of water in the boiler, about the safety valve, the braces and such other matters as may at all times be within the positive knowledge of the engineer?" All reliable experience goes to prove that neglect and carelessness are the producing causes of accident; and perhaps we may add that such carelessness generally arises from a lack of proper ap preciation of the responsibility of the position of an engineer, frequently on the part of the employer, who, unwilling to pay the wages of a competent person, too often takes up with one whose only knowledge of an engine has been obtained by working about one, at most, perhaps, occasionally assisting a competent engineer in the discharge of his duties. The control and manayement of a steam engine is one of the most important and responsible duties connected with machinery, and should never be entrusted to any other than one thoroughly educated to the business-one who is not only capable of running oce, but who also has sufficient knowledge to be able, at all times to pronounce upon the safety and capacity of an engine. None others should be allowed to run an engine, especially when lives are exposed to danger from any class of antidents. It is only by a refusal to employ incompetent person that a proper regard for the responsibil ity of the position can be maintained among engineers them-selves-such as will ensure a general immunity from this class of accidents.

A BIT of phosphorus, from a match, ignited under the finger nail of a German student at Dusseldorf and, though the flame was immediately extinguished, the hand swelled so rap idly that the whole arm had to be amputated.

A Piece of land was recontly sold in London at the rate - $\$ 9,300,000$ per acre, equal to $\$ 27250$ per square foot.

50 lbs MIARINE AND FIRE-PROOF PAINT M ANUFACTCRED BY THE PACIFIC METALILCRGICAL MORKS, IN THIS
city, tor Hulls and Decks of Fessels from ground Miveral Rock conDecks or Bottoms or shins itis equar to a coat of stoue, and quite equal
Copper, no worms will erer effect it, and cheaper than auy other paint.

For Decks of Ships, use tive parts Mineral Pa
with Linseer Oil.
Beth
aint, mise with Coal Tar and apmjs it hot.
For sale by all shup Chandicra and

## 25 lbs. Fire-Proof Paint,

## When used on Roofs, Buildiags, or Finces, it is equal to covering them with a coat of Stone, being perfectiy Fire-Proof, and coasting less than any paint.

HOUSE :-MITix three parts NECTIONS:
 ROOF:-Five parte of Mineral Paint, one part white Lead; mix wi
Liaseed oil. Put it thick on a tin Roof, as one coat when properly applii will last three years.
G. T. Fovare, Sunerintendent. S. C. BRadshatw, Agt.,

WORKS, Noxth Eea eneh; Office, 318 California st., SAN FRANCISCO

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Metalic and Agricultural Wealth of the Pacific States." The editor of this work has recently disposed of the "Mining and Scientific Press," with the view of devoting his entire attention to the publication of the work; to this end be is making arrangements for an early visit to the Atlantic States and Europe. The work if carried out according to the prospectus, will be one of the most valuadle publications yet presented to the public, and will prove of incalculable bene fit to Califirnia and the Pacific Coast generally, in bringing the immense miveral wealth of this region more prominently before the Capitalists of Europe. The object is a landable one and ought to be encomraged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the subjects of which he treats. He desires but little aid and that we trust he will readily obtain. The following is the pros pectus:


## WRIGHT'S PICKS



JinN wright, of Sacramento, has estabnened himself in San Fravuse
fur the manufacture of every de ecription of 1 ICKS, of the best naterial


y nathe.
JOHN
Opposite Bat tery, Sin Fraccisco.

## LEWIS COFFET \& RISDON'S <br> STEAM BUILER AND SHEET MRON WORIKS.


Old Stand, corner of Bush and Market Streets. LEWIS COFFEY

## READ THIS!

CoAL OLL EXPLOEION.
ON SATURDAY EVEING, WBILE MR. BREW-
Summe- street Hewse in porning coan oil from
imprudently approached with a lighled candle
aud the whe expluded. Mrs.
aiso the bustand's hands.
and prevention Brewster's arms were badly burned, as were
Huwever, he succeeded in mastering the \#lames,
equences --Eveuing Bulitio, Aug. 4 . THEN THIS!

## COMET ILLUMINATING OIL!

 Manufactured expressly for Stanford Bros.this popular<br>BRAND of KEROSENE<br>e, Petruleum, or any other explosire mate rial, and is the<br>Best Family Oil in the Market<br>STANFORD BROTHERS,

RECENT Patents-Granted to California Invenors through the Pacific Agency, J. Sieversmita, Solicitor
E. E. Matteson, Nevada: Hydraulic Derrick. This ivention has been illustrated in this journal, and has ob tained great celebrity throughout the State.
Elander Heate, Sau Francisco, Spirol Spice and Snge Mill. See "Mining and Scientific Press," June 9th, $1^{\circ} 62$, Vol. $V$., No. XIIs.
G. F. Deetien, formerly of Nevada: Apparatus for separating Gold form Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation. Mr. D. has recently established himself in this County, on the San Bruno Road. uear the Islais Creek, where he has erected chemical and metallurgical works.

Routcs and Fares from San Franeisco to Foreign and
Pacific Mail Steanslzip Company-Steamers leave for New York vir Panama, on the 1st, 11th aud 21st of each month. lst cabin, $\$ 250 ; 2 d$ cabin, $\$ 200 ; 3 d$ cabin or steerage, $\$ 100$.
Nicaragur Sieanship line, Ross, Dempster \& Co., agents -Steamers leave for New York via isthmus of Nicaragua on the 21st October, and semi-monthly thereafter. Price of fare not yet stated.
To Portland, Victoria, \&c.., \$60. Crescent City,Trinidad, Sc.. $\$ 20$ \$30. San Diego, Monterey, and Los Angeles, $\$ 20$ to $\$ 30$. Sandwich Islapds, per sailing vessels, $\$ 100$ to $\$ 150$. Australia, sailing vessels, 1st class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, 1st class, $\$ 200$ to $\$ 250$. Mexico, $\$ 30$ to $\$ 50$.

Califcrnia Sleam Navigation Company dispatch steamers daily to-Sacramento, $\$ 5$; Stockton, $\$ 4$; Peta uma, $\$ 3$. Ovevland Mrii' Compreny - S'tages leave daily for St. Louis via Salt Lake; fare, $\$ 200$.

## THE EYES! THE FYES!! THE EYES!!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San. Francisco Deaf, Dumb
und Blind Asylum.
After a protracted blindness of more than five years. Dr. PARDF:E has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practicing with a success that cannot be surpassed in the United States; and as proof of this he substantiates by many cases now in California that have been cured by hin, after having exhausted the skill of the eminent physicians and oculists of New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there has been more blinduess from bad and improper treatment thav from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what had been formerly done, the almost invariable reply is, "I had my eyes burned with caustic or bluestone;"
I was bled and blistered, then cupped two of three times a
reek-had a blue pill prescribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tightly bandaged-to avoid the open air and exercise," with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but barb them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and following theories the most erroneous, and destractive to the eye. How much more rational and consis' ent to consult an experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patients under his daily supervision, and, with but very few cases, they have all bee" treated by other physicians hefore applying to him-and all to no benefit. Those w, o are donbtful are permitted to call at Dr. Pardee's office and confer with the many patients who convene there between the honrs of 9 and 12 in the
forenoon. The Dr. has a large and only assortment of Artiforenoon. The Dr. has a large and only assortment of Arti-
ficial Eyes on this coast, inserted, having all the movements of the real eye, and that they lork so Tife-like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable:

All the operations performed, such as "Strabismus," or cross-eyes-"Cataracts"-or removal of the Lens by absorption or extraction;-" Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&c.
OFFICE:-Clay street, above the Plaza-opposite Plaza

PACLFIC MAAL STEAMSHP COMPANY'S he to PANAMA

## FUR PANAMA,

The folluwing siteamatips will be thep tellowit it the moth of December 1862

"" zotb $\rightarrow$ siNuld, W. F. lapidge, Colmmatiler.
at o oclock, a. s., pesctialas;
Add connect. via Panama Rellroxul, ut depluwall, with steanships for N. York For freight uf passago, apply to FORBES \& BABCOCK, Agents,
Jes
OPPOSITION
People's Line to New York.
ROU'TE CHANGED FRHM NICARAGUA TO ISTHMLS OF PANAMA.

# Through in Twenty-one Days!!! FIVE DAYS ALEAD OF THE MAIL A <br> The fast and favorite Double Engine Steamihip <br> MOSES TAYLOR, 1,500 tons, <br> E HOWES <br> PANAMA, <br> From Mission street Wharf, <br> Punctually at $\theta$ o cluek $A$. M., of 

Commander.

THURSDAY, - - . - . . - DECEMBER 11. 186\%,
Counecting at Aspinwall by the Panama Railroad,
And theace by the Splendid steamship

## AMEIRICA,

2,000 Tons.................JEFF. MAURY, Commander.
The Amer ies has proved hergelf the swirtest steamship aflont, and in com-
fort. cleunluess aud regulution is incumpurubly superior to . yy other rau-

 by the Xliaraguu Goverumeat, cannut pessibly occur on this route.

THE PEOPLE'S LINE
Has been established to meet the univorsal demand for an
OPPOSITION,
And every Californimn shoold give it a prefference for the public good, as
well as bia own private advantage, whicll will be secured by
Reduced Fare, Good Accommodations, and Quick Trips,
This Ine is intended to be a permaucney, and is not put on for the purpos of being bought or rrivon off. Speed, safely and the atmost comfort of pus
sengers are the maill objects. To securu these no merchandise freight (oth
 Tioht Compartments, aud is uneq
For informallon or passage apply to
I. K. ROBERTS, Agents,

## LABOR-SAVING <br> Rock Drilling Machines.

To engineers, rallroad contractors, turnpike, and QUarry will continue to receiue orders tor HAND, HORSE,
$A N D$
STEAM-POWER MACHINEs.
The Hand Machine are exprosely adinted for warking in ries, etc. one mau performing the labor of throe in the orthury way.
 being haited only by the durability of the steel drill.
Satisfuctory referunce will be givoul as to the practical warking of the machine, and its entire success in reducing the cast of drilliug holes to one-
tunth of the former expense, and on a ruck excavation of bayy extent, from
fity to seventy-five per cent. on the cutre work. Responsibie panties have rock excuvations to make in auy part of the State, the subseriber will
undertake and guarantee to perform tho work required, at a saviag of at leakt twemty.hive per cent. over any other processi- WMI. W. DUNN,
Address udders to
uc' 3 m ]

## F. G. BEPLER

## PRACTICAL COPPERSMITH,

No. 118 (Old No. 2Z) Bush street
Between Sansome and Battery,
Say Francisco.
Whilst thankful for the former contidence bestowed upon me, I desire

 rants and private liouses. Baking appuratus for Bukers and Confectiouers, as well as all other knods of copper work.
all orders from the country promptly attendod to.

## A. ROMAN: CO.

wholesale and retail BOOK ESTABLISHMENT. 417 und 410 Montgomery atreet, SAN FRANCISCO.
20. Orders respectrulty solicited and pronptly attended to.

- Truatise on Motallurky, Comprising Minngg and Genernl and Particnlar A Munul of Metallurgy, or A Practical Treatiso on the Chemlatry of Motale. Manual of stetallurgy, more particularly of the precions nectals; but includ
tag such ulhers its aro colaplayed tis dental praclice.
Records of Miniug and Metallurgy, or Facts and Memorandn for the Use of the Blinu Agat and sumelter. By James Phillipa tuld Juhn Darliogtor. Piggut on the Chemistry and Shaing of Copper. Prartical Jinera! Assaying und Minaig. Oyerman.
Gold Slinug nnd Assay ing; by lhilps.
Miners' Cumpamion and Guide, compiled by Silversmith.
Assayers' Guble; or Practical directious to Aasayers, Miners and Smelters. Practeal Assuying, by Mtehell.
Twer Ores aud Silver Mines, by Pro. Binke.
Cre's Dictionary of Arts, Maunnctures and Mines.
Weisbuch's Mechanies of Muchinery and Engineering.
Nevilto's Hyilraulie Pormula Tables.
Fresenfus' Chmical Analysis.
Together with maniny other works in this \& similar line (02). Books imported to order on short antice. Ta


## A. ROMAN \& CO.,

 417 \& 419 Montoomerv Street.Gird's BUDDING KNIFE
The attention of parners, houriccliturists and cutlerss or iovention.

Stute, Terr
rriory aud workshop rightef for sale at reasonalle priess.
Address,

## Bur ßeadtung für ©゙rfinter.

Exfinber, welde nidit mit ber englijdien Spradfe beknut fimb, tönnen ihre ฏrithocilungen in ber beutiden Spradie madjen
Etizzen von ©rpithurgen nit furzen, bcutlidy geidriebenen Bciafreibungen beliebe man $\boldsymbol{\delta}^{2}$ abdreffiren an.

Jus. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter,

## PIANOS,SHEET MUSIC

utalian strings
INSTRUMENTS OF ALL KINDS, \&e., \&c.
Sole agents for the eelebruted manuficturers,
A. d. GALE \& CO., New Yorlc;
'T. GILBEKI', Boston;
C. MEYER, Pliladelphia.

## PIANOS FOR RENT.

New Music received by every steamer. New Music pubished. Music ussorted and bound in the best style. A lib eral discount made to the trade and professors of musio.

## V. SQUARZA'S

## PUNCH FACTORY.

We present herewith the portrait and trade mare of the gonleman who heads this article. Mc. squarza is tavorabiy know in this state for his Anti-Wivorce Liquere and similar productions, as
manufacturcd by him. We may mentiou that Ar. squarza is au fait in the chemico-dh_tilligg science, hence the celebrity of his articles. He has two establish ments for the sale of his famous Punch-one on Leidesdorfi, the
other on montgomery street-whel are constantly thronged with our bon vivants.
The following is a list of his liquors, all of which we have tasted, and and them the most delicious and barmless beverages in this city, being pure and unadulter
Rum Puuch, Rum Puuch,
Cognac do. Arai
Auti-Divo
Ciffee Coffiee
lua
Piuenipia


Dr. Van Zandt,
Consulting Physician and Surgeon, OFFICE:
Corner of Washington aud Sansome Strects.
The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Natore, Electricity !
Made Subservient for the Cure of all Nervous and Spinal Diseases.

CHAT TLIIS PRINCIPLE, successfolly applien to dikenzed states by physichans, to ath their mediciues in overcoming organicaud Cunctuonal dermugumenis of the haman body it is a part of the great priuciple of vi-
tality knowr as bervons intlucace and ucelesarily ronst lative much to do in obviatugg diseased actou

## Too Muela Cannot Be Said

In its praise ; for it is lighly probable that in health there is an exact equilibrian of has ELECCRIC praciple ; and should this secere and hidden equipoine of healh be broken or lowered-should the budy be negatively elec-
trified whels it blould be postuvely charged-is not the current broken, and in there not a war uf furces going on 31 nur syotemp The needs correcting
and m order that the tissurs of the body should be susceptible to renuedial agents we must first restore aud

## Awaken the Magnetio Kite Withm Us.

The spinal and sympatherre nerve systems. Believing un I do most firmly In thas great magnetic or clectricul mulatity of tho eurch, with its maluence press, hrough wheh to awaken atleution to the subject, that good may come to all. No Compromise with Disease.
Give the body strength, zud naturo will relieve herself. Purify the life bloud, rellder the stumach, liver, heart, kidney and all the natural functhe uervuns, the unspiritol, the melaseholic, the uyspectic uad the invalid To the Lad
Dr. Van Zandt's success with complaints of women, buth in family and office practice, is owing to hit correct viows of the origin of all their mat-
atlies. Laties can consult him witls entire couldene, as ho is no speculacor aties. Laulies can consult him wills entirr confidence, as ho is no speculator upno human itls-but is proving himseif the only mumber of the legitimate
profession in Californin who is really successlul in removing those illa which protesion
are the pecular proviuce of the sex. His buyh appreciation of their delicately utuned hervous orgausm, logether with their great sympathetie
life, readers him doubly able to assuage those silent cumplainugs which they bear so patiently ady sole tong. No social disquietule need longer afHict our home circles; for he cau arouse thu strecken energies; restore the
wontell toncity of the body ; awakpu the melanclelic and despondings ; rest those draius which cause so much anxiety ; cure those protear maimdies which haves so long

## Baffed the Skill of Physiciang.

Develoo appetite, life and animatiou, dispel vervous heudache, sinking at Che stomach, wandering paius, wantug away of strength ; extreme debility eud lifelessness, bectic cought, slecplessuess, unplensant dreams aud that general depressiou of lite's powers, which, go to render her life a misery
and death a boon. Dr. Van Zandt, with his uew method of excting and deathatboon. Dr. Van Zandt, with his uew method of exciting the
Electro-Galvauie current, together with his remedial measurea which are adapted to the necessities of Califortia, will assure you of a complete and radicul recovery of all bodily and mental iofirmities, and will restore you to usefulness, and spare you a bleesing to your family and to society. All the World Over
wherever disease exists, whetber special to the soil and climato or com-
mon to all regions-epidemic ur casual, acute or chanome, contarinus or non mon to all reglons-epidemic ur cakual, acute or chronic, contaginus or non-
contagious $\rightarrow$ it is as necessary to restore che ELECTRO-GALVANIC oquilibrtcontagious $1 t$ is as necessary to restore the ELECTRO-GALVANIC oquilibrt-
um , especially in Culifornia, as it is to give fuod to the starvidg. This statement is baserl upou a series of facts extending through many years, and experience, no result of any well known callee, resis ipor more sure and unassalable fundat ons, than those which underlie the world-wide reputa-
tion of Electicity for the cure of all uervous states of the body, fauliy digestion, men il and plysicul debility or prostration, coughs, asthma, waddering pans of e rbeumatic, gouty ur murcurial elauracter, and all forms of
disease, the result of scrofulit or cauhectic babit of body,

## None Need Despair of Relicf.

If you have ulcers which will not heal-pains that cannot be removed-gain-d.aression of spirits which weigh you down-wakelulness that kuows io slpeping-busiuess that hamginbes lor want of pergy-at void which no
society cau fill-suspicion which no assurnuce can allay-Go to Dr. Van Zandt, lir luh great suceevs, and the safety with which he administers his
new method of Electrical 'xcitation, together with his remedies, which arg new method of Electrical excitation, together with his remedies, which are radical removal of all bodily and mental infirmities, within the scope of scienco and man to remove.

The Fye and Wax Disenges.
It must not be forgot ten by the ove and ear sufferers that Dr. Van Zandt
has made these aflictions an esnecial study, and that he is the only Surgeon en our state, who has a diploma fir that branch ol practice. Very many of the eyoand ear troubles are purely deranged rervous actious, and
are cured by his elec! ro-gntyauic batuery-as amiusoris, squatug, aut, hoating shecks berure vision, twitching of the cyelids, nervous deafuess, roaring aud buzzing noises in tho cars, giddiness, ctc. All operutions successluly done ou those delicato organs of sense.
Office-Coruer of Wushiugton and sing
nov29-3m

FREDERICK KESMODEL,
Cutler and Surgioal Instrument INaker sif Kearny strent,
Between Juckson and Washington streets,
RECIVED a diploma at the Fair of the Mechaulcs' Instituto, September,
1858 , alsn in Sacramento in 1861 for California made Catlery.
Thu atiention of thuse aflicted wlth HERNLA, or Rupture, or auy ole inThe 1858 , alsn in Sacramento in 1861 for California made Catlery.
The ation of thuse allicted with HERNLA, or Rupture, or any onThe atiention of thuse allicted wlth HERNIL, or Rupture, or auy olle in-
terested, is called th his new method of Giting and adapting Trusses to the different cases. It is a well known fact that there has as yet been no systema in muny cases, but they are all uncortain and canuot be $r$ lied on, and in severe cases are altogether useless. The following are some of the advan-
tages I claim for these Trusses a jove any and all others: First-The lad is
foren formen ou the purts to be compressed by takiug a plaster cast. Secund-
Having a correct mudel, it eurbles me to mike tho Pad of any desirable material, such us horu, wory, ete. Third-The Pad is so adjusted to the
spring that no movement of the body will more or displace it. There are spring lhat no movement of the body will more or displace it.
many other advantages. Examine and judge for yourselves.
FREDERICK KESMODEL,

## Our Mint, its Rules, Charges and Operations.

In the columns of a contemporary we observe some exceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending A pril, 1857, while the actual losi was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit Was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in tact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twenty-
two per cent., against two per cent., wasted by our branch two per cent., against two per cent., wasted by our branch
mint. The total expenditures for three years under Messrs. mint. The total expenditures for three years under Messrs.
Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expenditures lor four years were but $\$ 1,150,64814$; while the difference bet ween the last jear of Judge Lott and the last, year of Mr. Hemstead was upward of $\$ 100.000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of up wards of $\$ 86,000$. This certainly is a capital showing for our nint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in as equally satis factory manner.
For parting silver from gold when gold
is below 300-1000ths. fine.................ets per oz.
" from $300-1000$ ths. $10750-1000$ ths fine. 7 cts $750-1000$ ths to $950-1000$ ths " .14cts
Deposits Silver Bullion-Purceases.
\$1.21 per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of gold 1 to 300 , 3cts. per oz. gross weight

301 " 500 , 7cts,
Deposits for Fine Bars
\$1 16-4-11ths cents. per standard ounce, $1 / 2$ per ct gross value of silver for making bars; also when gold is contained 1,2 perct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 1$ 2lets. per standard oz. $1 / 2$ per et. gross value to be ad ped for making bars.

Deposited for Dollats.
\$I 16-4-11ths. per standard oz. $1 / 0 \mathrm{per}$ pet. gross value for coining, when gold is contained, refining charge the same as in purchases.

## Deposited for Imported Bars.

\$1 16-4-11ths, cents per stavdard oz. $1 / 2$ per ct. gross value of deposit for making bars.
In regard to the deposits of Washoe silver, the rule will hereafter be, that the value of gold contrined in the same will be paid in gold coin, and the value of filver in silver coin. The value of the silver will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, unless deposited for silver dollars, is which case a charge of $1 / 2$ per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, as most congruous with the physical aspects of the material, but in the warrant it must be marked that so much is to be paid in gold and so much in silver, according to the con tents reported by the assayer. The above rules, and charges
were promulgated on July 10th, by Superintendent Robert were promul
J. Stevens.
U. S. Branch Mint, Nov. 6th, 1861.

On and ufter the 15 th inst., a charge varying in accord ance and the character of the deposit, from half a cent to three cents per oz., gross, in addition to the general rates, and be imposed on all bullinu deposited for coindge or manufacture, which will require toughening or extra refining to render it suitable for mint purposes.

Robt. J. Stevens, Superintendent.

## Regarding Patents.

We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Our arrangements đre such that we can have all the papers.prepared,transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter into our hands; thus saving at least three months delay.
The expense to the applicant would be rather less, if the business be done by us. than if the papers were sent to New York or Washington.
Thus by patronizing a home institution, our inventive citizens can save both time and money.
We have prompt, intelligent and reliahle agents in the city of Washangton who attend punctually to all Patsent
brisiness sent to them. We have agents. also, at London, business sent to them. We have arents, also, at Lnndon,
Paris, Brussels, Hamburg, St. Petersburg, Berlid, Vienna, and other European capitals.

Pacific Patent Agency.
.J. SILVEESMITH,
Solicito

MINING AND SCIENTIFIC PRESS.
THE ONLT MINING, MECHANICL AND SCIENTHETC paper on this continent.
THIRD TEAR: VOLUME VIT-NET SERJES:
A uew volume of thls extensively circulated paper commenced Sept. 11 ,
1862. It is intendod that every number shall po roplete with informntion concorning Minitig, scienticic, Mechanicar and Industrial prissuits, together
with several original entraving with several orig
for its columans.
This paper is. devoted to the above purposes, together with tho interests of Science, Arts, Agriculture and Commerce, and any general information
that may bo of interest to the reader: and it is the intention of tho proprietor to spare no pains or expense in making to equal in interest and valuable information to any paper yet published.

The Mining Interest f
Will find it of groat value, as oit will contain all the news appertaining to Miuing, the prites and sas on
adapted to tiat purnose, and of everything generally that may be of servic to the Miner.
then
Will
into not
count
countrie
in obtuingad also of seceiving any information that may be necessary in obtining his patent, the prorrietor having had great experience as as a
Patent Agent, ogether with facilities at Washingtou that enable him to ob
aiu Patents withe The Mechanic and Manufacturer !
Will be greaty benefitted by its perusal, as cach uumber will contan ser-
eral origiual enyravings of new machines and inventions, together with eral orimiual enyravings of netw machines and inventions, together with a
large amount of reading matter appertaining thereto. We are constantly
receiving the best scientific fournals from all quarters, from which we receiving the best scientific fourrals from all quarters, from which we
shail continue to extract whatever may be of beneft or interest to our shail con
readers.

To Chemists, Architects, Millwrights and Farmers I This journal will be invaluable. All new discoveries in Chemistry will given, and a large amount of information of great service to Arciiteets and
Millwrights will be found in nur columns. The Furvera and Planters will
not be neglected, engravinge will be given of nuricultural implements and pol be neglectort, eugravinge will be given of ngricultural implements, and
the farming iuterest generaily will heamply discussed.
To mail subscribers :-Four Dollars per nannum
Club Rates.
Five Copies for Sis Months, $\mathbf{8 8}$. Rat
Five Copies for Six Months, 88 .
Tea Copies for Six Jlontis, $\mathbf{S 1 6}$.
Ten Copies Tor Six Smaths, s16,
Ten Copies for Twelve Monts,
Fifteon Coples for Twelve Months, $\$ 44$.

For all clubs of Twenty nd over, the yearly subscrintion is only 3280
Names can be sent in at differeut times and trom diffrent Post-oficos W, B. EWER, Publisher,

W, B. EWER, Publisher,
urt Building, Corner of Washingtrn

## SUGGRE'TIUN'S ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a genersl rule, any invention which is valuable to the patentee io this country, is worth equally as much in Encland and some other foreign countries. Four patents-American, English,French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of a!l patents taken out by Americans in foreign countries are obtained through the Mining and Scientific Press Patent Agency. Having establish-
ed agencies at all the principal Earopean seats of Government, we obtain patents in Great Britain, France, Belgiom. Prussia, Austria, Spain, etc., with promptness and dieModels are not required in any European country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravings should not be published antil the foreign applications have been made.
Caution.- It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter
against heeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrost their cases to the care of a competent, reliable agent $a^{a}$ home.

While it is true of Most European conntries that the rystem of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex, amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to caupe such ex amination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.

A Circular containing further information, and a synopsis of the Patent Laws of various countries, will be furnished on application to J. Silversmith, Government House, San
Miners, Inventors, Agriculturalists, Oapitalist and Mechanics, will find it to their advantage to subscribe for the Mining and Scientific Press-being the only jouroal of that elass published upon this continent. Issued every
Saturday at four dollars per annum Saturday at four dollars per annum.

Address, ... J. SILVERSMITH,

## IMUSIC! MUSIC !! MUSIC!!!

A. $\overline{\mathrm{K} O K} \mathrm{OK} \mathrm{E}$,

IMPORTER OF EYERY DESCRIPTION OF
Musical Instruments and Musical Merchandise. Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.

## Lighte's New Patent Insulated Iron Frame is put into all of

Lighte \& Bradbury's OVERSTRUNG PIANOS.

## RANK AS THE FIRST AND BEST In tome, delicacy of touch and durability. <br> All the leading Musicians of the country have testified to their superiority. <br> A. KOHLER, Agent fur the Pactic Cosst.

## Melodeons and Harmoniums,

 MASON \& HAMLIN.Warranted superior to all others.
Nond for a catalogue and Prico bint.

K0KI.FR, Agent.

## CORNS AND BUNIONS REMOVED.

DR. BYRON C. KENNEDY, practical Chiropodist, ate of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such as Corns, Buuions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted
Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic U1cers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street. opposite the Lick House, from 9 to $12 \mathrm{~A} . \mathrm{m} .$, and 2 to 6 f . m. Having devoted six years of study to this important, hut too much neglected. branch of human knowledge, and having studied anatomy under the most skiititul and scientific Professors of Philadelphia, and having made this branich of surgical science my speciality for nine years, enables me to operate skilfully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lofty position in the profession.

Voizin is an illustrious example, a shining light, among the philosophical stars of Earope, and Dr. Byron C. Kenne dy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that be is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks tor itself, was written by Dr. W. L. Stevens of the University College of Philadelphia
Dr. Brzow C. Kprnany: Dear Sir-Learning that you are golng to Lake your departure for California, and wishing to inform the citizous of Philo-
dolphia and also the penple of the Stite of California the esteem in which dolphija and also the penple of the State of California the esteem in which
wo hold you, and knowing that nothng is more essential to your success we hold you, and knowing that nothng is more essential to your success
than the encouragement which you may recenve from the pemple of Philac than the encouragement which you may recevve from the penple of Philac-
delphia, in the midst of which is the playground of your boyhood, and
knowing that you have devoted years of siudy to this important hut too much neglected branch of human kuowledge; that you havertant but to the highest rank in your profession, several of the Faculty and other prominent citizens of Pliladelphia having submitted to your manipulation, wo can remost skilful surgeons of the agc, anrl we hope your success may be such an will repay you for your years of study, and that you may fad a broad feld or your esertio sin the gew and growing city of the Pacific.

We subseribe nurselves yours, | We subscribe nurselves yours, |  |
| :--- | :--- |
| Rev W Stanton, L L D, | Woward, Att'y at Law |
| Richard A Vaux, | Pierce Butler, |



Ciepole Stevens, $\mathrm{M} \mathrm{D}^{\mathrm{D}}$,
Samuel Panenst, Mi D ,
Falter C Foster, M $\mathbf{D}$,
Henry R Kinton, M D,
Wm L Howard, M D,
Wm L Howard, M D,
Phillippe Lidy, M,
Phillippe Lidy,
Myors Davis,
M
W M Thompson, $\mathrm{M} D$, and others.
No. 718 Catharine street-this is to cerlify that Dr. Kennedy has removed
corna and bunions of my feet, which have annnyed me for years coras and bunions of my feet, which have annnyed me for yiars. He also
removed a caucer from may middle fager, which I had no use nf for a peremover a cancer from may midde fuger, which Ihad no use of for a pe-
rind of six months. J cordially commend bim to the suffering bumanity of
Philedelphis as a skilful surgeon.
MRS. J. W. HAMBronD.

## Capt Morbeture,

Wm H Mills, Jr
Rev Walter W Stanton, LLD,

| Samuel W Howard. Att'y at Law, | Majnr Comsfock, |
| :--- | :--- |
| Cleopole Stevens, Pharmacentist, | Mrs W. Patridge, Walnut street. |



From Dr. W. L. Stevens: Dr. Kennedy has operated upna my feet, and has
effectually cured me of some torturing pesta that I have been annoyed with for years.
From the Rev. Waiter M. Thnmpson: This is to certity that while sojoura-
ug in Philadelphia, Dr. Kenuedy has operated ou three of my family to my ing in Philadelphia,
entire satisfaction. tre satisfaction.
From the Fon. Wm, M. Thorn, ex-member of the Ohin Legislature: This is
to certify that I called on Dr. Kennedy to onerate on my fect: He displnyel to certify that I called on Dr. Kennedy to operate on my feet: He displnyed
great skill as a surgenn, nnd I am satisfied that he has elfectually cured med of those torturing pests which have annoyed me for many years. From Geo. F. Omerly, 637 Arch street: This is to certify that I called on
Dr. Kennedy. He has operated on my feet to my entire satifuction. au21


A JOURNAL OF MININむ, AGRICULTURE, MANUFAGTURES, SCIENCE, ART, CGFMISTRY, INVENTIONS, ETC.

## Practical Information for Working Miners.

In our last issue, we gave, under the above head, certain rules by which working miners, and amateur prospectors, might, with the blowpipe, determine the churacter of the minerals upon which they were operating. We had intended to have prefaced those rules with a few practical hints in regand to the use of the blowpipe, but neglected to do 80 until it was too late for that week. We supply the omission now.

In using the blowpipe the flame of a lamp, candle, or gas may be used. The best flame is that by a lump with a large wick fed with olive oil. The smaller end of the blowpipe shoutd be placed within the flame, and, the wick should be slightly bent in the direction of the flame.
"The blowpipe flame consists of two cones; an inner of a blue color, and as outer, yellow. The heat is most intense just beyond the extremity of the blue flame. The inner fame is called the reduction flame, and the outer the oxydation flame. A mineral reduced to the metallic state by the inner, may often be oxydized, or combined with oxygen, in the outer flame, where it is in contact with the atmosphere. For oxydation, the beak of the blowpipe should have a large aperture, and the wick of the lamp should also be large; the heat usually requisite is that of incipient red.
To support the mineral in the flame, a piece of ciarcoal is generally used-the coal being carefully selected, well burnt, but firm; thal from pine wood being the best, $8 s$ it burns with the least ashes. A small cuvity should be cut in the surface, barely sufficient to receive the sulustance to be acted upon- $\mathbf{w h i c h}$ should never exceed, in bulk the size of a pea. Sometimes the substances to be acted upon are of such a natare that they will sink info and blend with the coal; in such cases a metallic substance. as of copper, silver, gold, or best of all, platina may be-employed. Coal is always preferable when it can be used, as the carbon of that material greatly assists in intensifying the heat necessary for the desired reduction.

Many minerals remain unaltered before the blowpipe unless some substance is added to aid in the fusion or reduction. These substances are called fluxes ; the most common and easily attainable of which, is borax.

From the above hints almost any person may, with a little practice, soon acquire considerable efficiency in the use of the blow pipe. Having become sufficiently expert in the use of this instrument as to decide upon the character of the mineral upon which he is operating, the amateur will naturally desire to carry his investigations a litile farther, and ascertain the proportion of metal contained in the ore upon which he may be operating. This may be ascertained in the case of any material which yields a regulus-(the button of pare metal, which, in the melting of ore, falls to the bottom of the crucible) and by an instrument so simple, that any person may make one for himself. Of course, it is always better that the prospector should be provided with the proper iustruments, which may always be obtained in any considerable eity in the country. But we are, just now, writing for the prospector, who may be at a distance from such
facilities, and who, of course, must be thrown on his own rescurces.
how to ascertain the proportion of metal contained in

## ANY QUANTITY OF ORE.

Take any common marsh reed, such as will yield a straight oint of eight or twelve inches in length-eight will answer very well. This joint should be carefully split, so as to form a trough through its whole length. Then take a narrow slip of very thin paper (that known as pony paper or bank post, is most suitable) the length of the piece of reed, and paste it upon a common carpenter's rule or any scale where the inches are marked off, (a scale of ten to the inch is better than eight.) It should be so pasted that, when dry, the divisions of the inch may be easily and correctly marked upon the paper with a fine poiuted pen. Previous to marking off the inches, it were well to draw, with a rule, two parallel lines the length of the paper and about $\frac{1 / 8}{}$ of an inch apart, and between these lines mark the divisions of the inch. This done mark the centre division line with an 0 [zero]; then commence each way, right and left, and number every fourth line from the centre to the ends, thus:
The fourth line each way from the centre should be marked 10 ; the 8 th, 20 ; the 12 th, 30 ; the 16 th, $40: \& \mathrm{c} . ;$ and a slip of 10 in . long graduated into loths of an inch, we have on each arm 50 lines, or $125^{\circ}$, taking 4 lines for $10^{\circ}$ or $21 /{ }^{\circ}$ ench line. While the linesiand numabers are drying, the exact centre of the reed trough may be ascertained, and marked right across by spots on the two edges. A line of gum-water, full $1 / 8$ of an inch wide, is then laid with a camel's hair pencil, or any convenient instrument, along the hollow ; and the paper being stripped from the rule (which it leaves easily), the graduated strip is cut out with scissors,
and laid in the trough, with the mark 0 (zero) exactly in the and laid in the trough, with the mark 0 (zero) exactly in the
centre. Being pressed close to the gummed reed, by passing the round end of a quill or avy other convenient instrument along it, it graduates the trough from the centre to the end. The graduation is very true, if well managed, as the paper does not stretch with the gum-water, after being laid on the rule with paste.
A very fine needle is next to be procured and passed
through a slip of cork, the width of the trough, about $1 /$ an inch square, and $1 / 8$ the width It should be passed through with care, so as to be quite straight. The cork should then be cut, until one edge of it fits into the trough, so that the needle shall bear on the edges, exactly in the spots that marked the centre, as it is of impoltance that the needle and trough be exactly at right angles to each other. . The cork is now to be fixed in its place with gum-water, and, portion of any soft resinous cement, on the point of a wire or knitting-neerle. A little cement being also applied in the same manner to the edges of the cork where the needle goes through, to give it firmness, the beam is finished. It may be balanced by paring the edges on the heaviest side, but accurate adjustment is needless, as it is subject to vary with the dampness or dryness of the air. The suppurt on
which it plays is a bit of tin-plate (or, in preference, brass whate), 多 of an inch long ano 1 inch wide. The two ends are turned up square $5 / 8$ of an inch, giving a base $5 / 8$ of an inch wide, and two upright sides $3 / 8$ high. The upper edges are then rubbed down smooth and square upon a Turkey s'one, letting both edges bear on the stone together, that they may exactly correspond. For use, the bram is placed evenly in the support, with the needle resting across the edg-
es. Being brought to an exact balance by a bit of writing paper, or any other substance placed on the lighter side, and
moved toward the end until the equilibrium is produced, it
will turn with extreme delicacy-a bit of horse-hair, 18 of an inch long, being sufficient to bring it down freely.

## This is used as follows:

A suitable portion for an assay, say 1 to 3 grains, of the mineral to be tried, is placed on one side of the beam, and counterpoised by a sunall weight, or any other substance on the other side: on No. 100 if the produce be required per cent. (but if per cwt., on No. 110 ), the assay piece being moved to or from the eentre until the balance is adjusted.
Its exact place on the beam being then noted, it is to be takIts exact place on the beam being then noted, it is to be taken of and reduced in the usual manner. If it require- roastmust be first heated red, that its weight may not chavge during the operation, and then be balanced by a separate weight from that which counterpoises the ore, and, is to be woved to indicate the changes in the assay; and, as in this case, the cupel must not be moved toward or from the e ntre, after being balanced, the powdered ore must be adjusted to its counterpoise weight, placed on 100, by taking out, or putting in a yittle, as the case may require, and not bv moving, as when no cupel is used.
When the reduciion is complete, and the particles of metal have been brought together into one bead it is allowed to cool, and then broken out of the roda (if any was used), is replaced on the beam precisely where it stood; or the loss or gain in roasting may be ascertained in the same manner. The counterpoise will now require to be moved toward the centre, in proportion to the loss of the assay. The number on which it stands, when the balance is restored, will give the produce per cent. or per cwt., accordirg to the first position of the counterpoise.

A beam of this kind is described in the "Annals of Philosophy," a graduated thin slip of deal, the needle fixed on with sealing-wax; but this is rather troublesome to graduate, the polish of the needle is apt to be impaired by the herat, its greater weight also interferes with its delicacy, and a blowpipe bead is very apt to fall off its flat surface. On these uccounts the reed beam is an improvement. Brass-plate is, however, where procurable, preferable to tin-plate for the supports ; and, still much better, two straight bits of fine glass rod or tube, fixed with cement on the edges of a groove, in a piece of wood of the requisite dimensions.
In making the trough, it will be found most convenient for use if it should be made about a quarter of an inch wide n the centre and rounded away to an eight of an inch at either end.

An equal weight of transparent glue and very strong vingar, with one quart of alcohol and a very small quantity of alum, dissolved by means of a water-bath, is said, by M. Bœttger, to make an excellent liquid-glue, very use/nl for uniting fragments of horn, pearl, shell, bone, etc.

Force of Ocean Swells.-Some idea of the tremendous power ezerted by ocean swells may be inferred from the fact, as reported by Capt. Trask, who has recently returned from the wreck of the Golden Gate, that the massive bower anchor of that ship has been found driven bigh and dry upon the beach fully seven miles from the locality where the ship was burned! The only portion of the wreck remaining was the forward part of the steamer, just abaft the boilers. Capt T. does not entertain the slightest idea that any portion of the treasure in the safe will ever be found. Abont $\$ 300,000$, probably in the possession of passengers, has been thrown upon the beach and appropriated by the natives.

## THE WATER BALAYCE

The Territorial Enterprise speaks as follows of an ingenjons mode of raising ore from some of the shafts in that locality :-
A cheap mode of hoistiog ora from the mines is found in the water balance, where a mine is so situated that this means can be employed, and there are doubtles places in the Territory offering conveniences for this plan of working. What is necessary, is a drain tunnel from the bottom of the main shaft, and a stream of an inch or two of water on the hill, that may be brought to the level of the top of the shaft Having these requisites, two large tubs, or a tank, with whatever contrivance may be deemed must convenieut and desirable for hoisting dirt, are suspended in the two compart ments of the shaft, by a rope workiug over a large pulley. Supposing the dirt tul or car to be filled at the bottum of the shaft, the empty water tank is of course at the top. By means of a small hose or spout the water tank is filled till its weight overbalances that of the dirt turb; when, very naturally, the former descelids aud the latter rises. The dirt tub being emptied, the water in the tank at the opposite end of the rope and bottom of the shaft is drawn off, and flows away by a drain tunael, allowing the dirt tub to descend to be again filled. Thus the operation goes on, ad infinitum, doing the required work at a very small working cost--neither is the first cost of the machinery more than a mere trifle in comparison with the cost of hoisting by steam machinery.

## Cotron and Tobacco in Ilinors.-This year, says the Call,

 has demonstrated beyond a doubt or question that the prairies of Illinois are completely adapted to the cotton plant and that the climate presents no obstacles to its saccessful cultivation. Large fields were planted to cotton in April and May last, and they sufficiently matured before the frost came, to be gathered, yielding an average of three hundred pounds per acre. Samples show that the staple is of superior quality, fully equal to the best "upland" that is grown in the most favored cotton districts. Satisfied with the success of this year's planting, companies of gentlemen interested in developing the material prosperity of the State, and individual furmers, are making preparations to commence the cultivation of cotton on a greatly enlarged scale next season. The question of cotton cultivation in Illinois as a new source of wealth, is considered as settled. Estimates by the loca paperi give 20,000 bales as the yield of the State this year. The crop of tobacco in Mlinois is unprecedentedly large. A correspondent says that as much as 2500 hhds. will be shipped from Carbondale, a section on the Illinois Central Rail road ; and that southern Illinois will send as much tobacco and hemp to market as the whole State of Kentucky. The millions of bushels of grain which the West exports furvish miniost the sole medium of cxchange for the staples and manufacturers of the old world, and until our political trous bles are settled this must continue to be the case.Consmerable quantities of cotton have been produced in New Jersey this year. The soil grows as much as 800 pounds to the acre. Before the invention of the cotton gin every New Jersey family raised its own cotton.

Tene following method of cutting glass is given in the Photographic News, by Alex. Taylor: "In treating of glass, I may give you another way of cuiting bottles, shades, or any glass vessel the neat thing you wish, and that is, to get a rod of iron heated to redness, and having filled your vessel the exact height you wish it to be cut, with oil of any kind you proceed to very gradually dip the red-hot iron into the oil, which, heating all along the surface, suddenly the glass chips and cracks right round, when you can lift off the upper portion clean by the surface of the oil. This never fails, and many a couple of bell glasses have I made in this from a sixpound confection bottle."

The Turpentine Manofactory, to which we alluded in opr last as having recently been established in Marysville, is, as we learn from the Appeal, owned by Messrs. Wait \& Jacobson. The enterprise, thus far promises a complete success. The gum obtained from the foot hill nut-pine answers admirably, and can be easily obtained in sufficient quantities, though it may be necessary to employ Ohinese labor to help gatherit. The enterprising proprietors will be on hand to secure the premiums offered by the Agricultural Bounty Bill, namely : for the first 10 barrels of rosin made in the State, $\$ 300$; for the first 10 barrels of pitch, $\$ 150$ : for the first 100 gallons of spirits of turpentine, $\$ 250$; for the first 1,000 gallons of spirits of tarpentine, $\$ 500$.

Mustard.-There was lately shipped from San Francisco 320 bags of mustard seed. The wild artiele of this country Is said to be superior to the best English, and the supply boundless.

## SAN FRANCISCO MINING NOTICES.

Charles Cany Mining Co.-An assesment of $\$ 150$ per share was levied on the stock of this'Company, Dec. 14th, 1862, payable on or before January 14th, 1863, at office, 338 Montgomery St.

Live Oak Copper Mining Co.-Office, Montgomery Block - An assessment of thirty cents per share wus levied, Dec. 1st, 1862, payable in thirty days.
Norte Potosi Stuter Mining Co.-Annual meetng of Stockholders will be held on the first Monday in January, 1863.

An assessment of four dollars per share was levied on this Company,Dec. 11th, 1862, payable on or before January 16th, 1863, at office, Cor. Buttery \& Washington Sts.
Meredith Gold \& Silver Mining Co.-An assessment of two and a half dollars per share (five dollars per fo t) was levied by this Company. Dec. 11th, payable immediate 1y, at office, 712 Montgomery St.
Red, White and Blue G. \& S. M. Co. levied an assessment of 25 e rits per share, on the loth of Dec . payable within thirty days, office cor. Pine and Montgomery Sts.
Bullion G. \& S. M. Co.-The Stockholders are notified that they will hear something 10 their advantage by caliing at the office of the Company, cor. Pine and Montgomery Sts.
Cedar Hill Tunnel Mining Co.-Annual Meeting of Stockho'ders will be held at office, No. 5,
Co's Bank. on the lst Thursday in January.
Sifrra S. M. Co. will sell at anction, shares on which arrears may be due on Monday, January 5th, by Duncan \& arrea
Co.

Norton G. \& S. M. Co.-An assessment of two dollars per share was levied Nov. 25, payable on or before Dec. 30 ch , 1862, at office 532 Montgamery St.
Adriatic G. \& S. M. Co. will hold its annual Meeting of Stockholders on Monday January 5th 1863, at No. 4, Amory Hall.

Wrilow Springs G. \& S. M. Co -The annual meeting of Stockholders will be held at 224 Montgomery, on the 29 th of December, for election of officers.
Banner G. \& S. M. Co. has been duly organized. All claims or interests not presented for examination at office, 522 Montgomery St., on or before Dec. 31st, 1862 , will be forever barred.
The first annual meeting of the Stockholders of this Company will be held at their office, Dec. 24th, for the election of Trustees, etc.
Dros Padre G. \& S. M. Co.-An assessment of three dollars per share was levied, Nov. 29th, payable ou or before Jan. 1st, 1863, at office 502 Montgomery St.

Emaett G. \& S. M. Co-Ain assessment of twenty-five cents per share was levied, Nov., 21st and is now due, and payable at office 326 Clay St.

Vibbard G. \& S. M. Co.-An assessment of 25 cents per share was levied, Nov. 21st, and is now due at office 326 Clay St.
Dorle G.\& S. M. Co.-Au ascessment of 25 cents per share was levied, Nov. 21st, and is now due at office No. 326 Clay St.
Lmingston G. \& S. M. Co.-An as eessment of 25 cents per share was leried, Nov. 21st

Isacis G. \& S. M. Co.-An assessment of 25 cents per share was levied, Nov. 21st, and is now due and payable at office No. 326 Clay St.
Komer G. \& S. M. Co.-An assessment of 25 eeuts per share was levied, Nov. 21st, and is now payable at office 326 Clay St.

El Dorado G.\& S. M. Oo.-An assessment of one dollar per share was levied, Dec. 1st, and payable at office, on N. E. cor. of California and Montgomery Sts., or to Snperintendent in Virginia City.
Iowa Mning Co.-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Montgomery St. on, or before Jan. 3d, 1863.
Josephins Mining Co.-An assessment of two dollars per share was levied, Nov. 19th, and is now due and payable at office No. 21 Stephenson House.
Burnstide S. M. Co.-An assessment of one dollar per share was levied, Nov. 1 Tth, payable within 30 days, at office 712 Montgomery st.
Chledonia G. \& S. M. Co.-An assessment of 20 cents per share has been levied by order of Trustees, and all Stockbolders neglecting to pay on or before Dec. 22d, will hare Stock sold to pay the same on that day, in front of the Post Office, Gold Hill. Offeə 412 Front St.
Hawley Mining Co.-An assessment of 50 cents per share was levied, Nov. 15th, payable at once, at office 204

Ambrican Quickshlver Mining Co.-An assessment of one dollar per share was levied, Dec. 16th, payable at Company"s Office, in Petaluma, within 30 days-At the expiration of which time delinquent Stock will be sold.
Napoleon Copper Mining Co.-The first annual meeting of this Company will be held at office N. E. corner of Sacramento and Montgomery Sis., on Monday, January 12th 1863, at 8 P. M.
Madison G.\& S. M. Co.-The books of this Company are open for issuance and tran-fer of Stock, at 608 Merchant St.

An assessment of two dollers per share was levied on the Stock of this Compary, Nov. 13th, payable at ouce.
Burning Moscow S. M. Go.-An assessment of Two Dollars per share was levied, Nov. 25 , for the purpose of defraying expenses of steam pamp and machinery now being erected to drain the mine. Prompt payment is requested at the Company's office, corner of Monigomery and Jackson Sts., to Jos. P. Nourse, See.
The regular quarterly meeting of this Company will be held at the Compuny's office, on Wednesday, Dec. 24th 1862

## WASHOE MINING NOTYCES.

Poorman G. \& S. M. Co.--An assessment of Five Dollars per share was levied, Nov. 9th, and another of Ten Dollars per share, Nov. 21, payable at once to the Secretary, R: J. Mitchel.
Coledonia Tunnel and Mining Co.-An assessment of Thirty-two Dollars per share was levied, Dee. 8th, payable immediately to the Secreary, Martin White.
Tee Chmaney Rock Co., lying next west of the Virginia Co claims have botified the Hazel Green, Tingley and Biach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.
La Crosse Mintag Co.-An arsessment of $\$ 125$ per Tirginia City

Hawk Eyf Silver Mining Co - An assessment of 25 cents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Ashland G. \& S. M. Co: $\rightarrow$ An assessment of fifty cents per share was levied, Dec. 10, payable at the office of M. J Power, Sec., B. St.
Independent G. \& S. M. Co,-The annual meeting of this Company, for electing officers, will be held at Galena, on the first Monday in Janaary.

The Sterra Nevada Silver Mining Co. advertise in the Territorial Enter mise, 1042 shares of stock for sale tor $\Omega$ nsessments, on Monday, Dec, 29th. Shareholders will do well to look to their interests.

Union Company, Goud Helu.-An assessment of fifty cents per foot has been levied, payable at the rate of tea cents per foot, Nov. 15, 22, 29 ; Dec 6, and 13, at the Company's office, Gold Hill.
Martin White Mining Company.-An assessment of ten cents per foot has been levied, payable to the Secretary, at office on C Street, Virginia City,
Norman Suiter Minino Co.-An assessment of One Dollar per share was levied, Nov. 19th, payable on or before Dec. 31st, to the Superintendent in Virginia City, or at the office, No. 40, Montgomery Street, San Francisco.

Tee Sweeney Co., Gold Hill, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.
Mobegan Co, Cedar Hill.-Anassessment of fifty cents per foot was levied. Dec. 5th, payable forthwith, to the Secretary at Virgibia City.
Oriental G. \& S. M. Co.-The 3d assessment of 15 cents per foot, was levied, Dec. 8th, and is payable at office, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTICES.

Tae Zenobia Lode Company, give notice that they claim a superior title to the Jobnson Co.. chaiming the same groand so far as said localities couffict. This ground is a portion of that now held by the Company known as the Wide Wesi Company. The notice is signed by A. Waddell, J. C. Dor sey, S. P. Dorsey and James Elder,

Brooss.-The California Farmer, says there were manu factured in this State last year 480,000 brooms, wort) $\$ 150,000$.

Solvent for Old Putty and Paint.-Soft soap mixe with solution of potash or caustic soda; or pearl ash an slacked lime mixed with sufficient water to form a paste Either of these laid on with an old brush or rag, and left fo some hours, will render it easily removable.

## TO MINING COMPANIES.

We earnestly solicit from mining companies and associations the following blank statement. filled arcording to the data hereby acompanying. The purpoee for which we seek this informaton is important to every citizen and stuekholder on thi-const ; it would also be productive of beneficial results-i. u., inducing cupitalists to invest in our mining operations, theroby infosant new life and viror into businest geme ally in our states and 'Torrituries. Little, if angthing, is knew. of our mutallic wealch in Europe or the Gastern States, hence wo desire as much of the blank filled by you as may be interesting and instructive to the people of this Stateand thuse interested abruad.
We kunv of nu mining district in Europe or Americu whers this kind of information is not willingly rendered by partes owning propurty of this nature; and we kuow of nu beter mediun for making public the richness of our mines. W: shall send blanks to mine and mill proprietnrs for every quarter, and will gladly nublish the contents for the iuformaton of the community:

| Ltien ot Complotiy und bame of offecrs for the year. | Am'l, fanck \& value per share. | When focorporated |
| :---: | :---: | :---: |
|  | * |  |
|  |  |  |



PALMER, HANSCOMB \& CO;
Golden State Foundry and Machine Works, Firat strect, noar Marlet, San Franclsco, Cal.
1 R ESPECTFULLY SOLICITS ORDERS for all kiuds of MACHINERY, fo Miuing aud other purposes. Pleake send Plaus and Spectications. Haring the most coniphte arrangemedts and appointmeats for finishing
nod executing aoy and ull kinds of Custiogs aud Machuery on this Coast.


## Attention! Attention!

TRACT OF LAND, EMBRACRNG AN AREA OF 400 ACREE, RAS RFCENT-
I
heen sarvey eol and plotted out iuto lots, which are now offered for To on reasomble fermius any ever offred by the varinus Homestead As?istiona in our city. Tho tract in kuown an the "University Mound Sur"" and derives its name from the fict that the Directors of the Univer-
"College hive selecterl a site of alpout twenty acres in the ceute of the - College hive selectell a site of about twenty acres in the ceure of the
ut for their College Building aud Purk- This property is mors beautiful nt for their College Building and Purk- This property is mors beautiful
n any other ever offered in this m trket, and its locution is such that it it in the nutural progress of improvement scon be in great dermand for es of residence. Thatt this property will iderease in value, is as certain ye furure of Sin Fraded-co.
vestrueuts in Real L-talu, it is well known, have paid as largely as any
r, aud insurance against rink of deprectation io value is secured by lie and insurance against rink of dperectation in value is secured by the 'est is Real Es ate, and you will fud it more proftable than investing
|d-cte miniug stuck, or lousting money thut may be pid in deprin ley. miniug stuck, or louting money thut may be paid in depreciated
prices prires for lota in the above tract will remain uniform uatil after the yorther particularst intereat. The title to the land is perfect. urtber partichlars apply to
HARVET BROWN,
No. 19 ' Vaglee's Building.
egraphic Maps can be seeu aud had ut the above be 6 mo

## DEETKEN'S <br> Chemical and Metallurgical Works,

SAN BRUNO ROAD, ISLATS CREEK,
SA.V Fbavcisco.

GOLD BEARING SULPEURETS WORKED AT $\$ 20$ PER TON.

 yi tor the purpose.

## JULIUS SILVERSMITH,

## ISSIONER FOR NEVADA TERRITORY,

WFICE, IN LATE STATE CAPITOL,
$C_{\text {Battery \& Washington sts., Room 23, up stairs. }}$
WD RESPECTFULLY SOLICTT FROMT THOSE WHO HAVE bES ge irs requiring the uncial action of a Commissinuer-suct as -of afiduavits, ackuowledgments, the talsing of testimony, etc.
W. T. \& J. GARRATT,

BR \& BELL FOUNDERS,
St \& Martee tate. opp. Ortental Hotel, Market ets.app. Orie
SAN FRANCISCO.
BChi CASTRNGS, TIRE ENGGES FORCE AND LIPT PUMPS,
 HYDR1, aun NozZLES For MTING PURPOSES, Irou stean pipe


## LEANDER RANSOM,

CIVIL ENGGNEER AND SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, mul the public surveys of the Stue ol Calliforik for 7 gears.

## aLSO, state locating agent.

And an sutb laving the anle of
600,000 ACRES OF THE STATE SCHOOL LANDS At the low price or $\$ 1,25$ per Acro.
O3) Terms-'Twenty por cont in cash, and the balanco on a credic of

OFFICE : Secand floor of Express Building, N. E. corner of Montgomery
oci -3 m
and Californis slreets. and Californis alreets.
oci-3m
A GENCY FOR PATENTS. - The underbigned having ben longe trenss for attending to the interests of inventors baving favorable arrangeWushagton, offer ther servieus for the securing of Caveats and y'atents wiso, will atten to the sules of Pateat Rights, and to all matters coupected with patented inven tlons.

## WETHERED \& TIFFANY,

Office, 410 Montgomery street
CHARLES R. BOND, (Iate City and County Ausessor.I REALESTATE AGENT, 410 Montgomery street, San Francisco.
REAL ESTATE PURCHASED AND SOLD, LOANS NEGOTIATED
Washoe Stock Exchange,
N. E. cor. Montgomery and Merchantsts., SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and sell Washoe, Esmeralda aod other Mining Stocks and Securities. sep20

## THEODOR KALLENBERG,

## MAKER OF MODELS

 for Inventors,M achines, mathematical optical and Philosophical Instrumente M Scales, Weights, etc, ; Steel Stumps, Dies and Die Sinking, Embossing Rer Repairing of Machinery promptly attended to. au7. 3 m
(No. 4 Sansomestrect, corner Market, San Francisco..)

## DEVOE \& CO.'S <br> STFAM ENGINE

## MACHINE WORKS,

Comer Market \& Fremont streets,
AI, KINDS OF MACBINERY, SUCH AS STEAM ENGINES, SAW MILI
Arons, Flour Mills, Qartz Mills, etc., eto., made to order and repaired. DLACKSMTTHING ALSO,
BCaCkSMITHING, TURNING, FINLSHING, PLAiingg, AND SCREW-BOLT
A GRICULTURAL MACHINERY of all binds made and repaired.
Threshing Teeth made to order, in the most peasonable terms. Steam ergines Bollers constantly on hand terms. cheap. Screw-Cutting Turning Lathes for salo.
jels DEVOE \& CO.

LATEST IMPROVEMENT
In LADIES' BUCKLES.
Me reichet respctevlly announces to the ladies of this - State, as well as to Jewelers and deaiers in Jewelry, that he has made mportant impravementa in BUCKLKE, which surpass auy and all hereto'ore made. Their simplicity, commodiousness, and beauty render them the must useful as vell as ornamental trinkels.
Orders trom the country respectiully
address,
FREDERIk REICBEL,
Hanufacturing Jeweler,
вep11
620 Merchant etreet, San Francisco.

## NEW ENGLAND SEWING MACHINE for $\$ 25$

THIS MACGinE stands confessedy at the head of overything now before 1 , it has no rival. it is made with special references. to the wants of a family, and any one with the ald of tho prineed directions can learn to work it successfufly in a few buurg It will work from leathier to the finest cambric without the cuange of needie, tension, or feed. It gives the bests satisfaction whare it is sold, and all who ure or examine pronounce it better adapud to
meet the wants of every family than any other machine now ofered to the public. Guage and hemmer aitachod. pubic. Guage in waranted, and kept in order free of charg.
Every machine
only cheap machine that will do all kinds of family fowiog.

## sep11

W ${ }^{\text {LJLLAM }}$ Deeds for California Virg Vina City, N. T.

THE FOLLOWING GCODS TO BE FOUND AT
H. D. PHARCE'S:

Gents' Heavy Gold Cases, different patterns ;
Ladies' Heary Gold Cases, do do;
Gcld Telescopic Pess and Pencil Case;
Extension Screw, Heavy Silver, for Gents';
Extension Screw, Heavy Silver, for Ladies;
Silver Extension Cases ;
Silver 'relescopic C'ases;
Screw, Silver and Ebony Desk Holders;
Slide Silver and Ebony Desk Holders ;
Reverse Silver and Ebony Desk Holders;
Pen Holders, Silver and Ebony;
Pen Holders, Gold and Ebouy
Pen Holders, Gold and Ivory;
India Rubber Propelling Pen and Pencil Cases
India Rubber Propelling Pencils, short.
2. All the abovo gonds ure mado to order and warranted; will bo wold cheap for cash. There are some thirty difforent patterns, leaving an oppor tunity for parties to select and bo suited.
A chenper class of Pens direct from New York, at wholesale only.
Ne Gold Pens constantly on hand. Gold Povs repaired.
H. D. PEARCE,

G06 Montgomery street, between Clay and Merchant, up staira
GREA'R REDUCTION
IN PRICES.
STANFORD BROTHERS,
121, 123 and 125 California Street,
KEEP THE LARGEST STOCK OF ALL KINDS

## Lamp Stock,

And will Sell Cheaper than any Hoase in this Btate LAMPS,
chminexs.
CAMPHENE,
BURNING FIUTD,
АLCOHOL, TURPENTINE,
conl ore, KEROSTRNE OTY COMET ILLUMINATING OIL.
SPERM OLL,
LARD OIL,
MACEINERY OLL,
RAPE SEED OLE,
LINSEED OLL, Raw and Boiled, POLAR OIL,

SEARE'S OKL
NEATSFOOT OLI, TANNER'S OLL, \&c., \&c., de.

Our custnmers in partlcular, and the country trade generally, are requested o ascertain our prices before purchaning from traveling ageats, as wo whil sell at less rates than they ean afford to.

PHILADELPHIA BREWERY, Second street, conner of Folsom, San Francisco, Olin.

## Holscher, \& Wieland Proprietors.

T hankiful for past patronago to a discriminating public, we beg loave above well known brewery has been permannently located in vir new promi ses, on second street-the former rosidence of capt. Forsom whore we sbill endeavor oc continue in furuishing our numerous patrons with the bent ar-
ticle of "Bier." We shall sitive to perpeluale the good reputation for ticle of "Bier." We shanl stive to perpetuato the good repuatation for
promptitude and the failhrul execution or ordors as heretofore, and thereby nerease our customit

## FULTON FOUNDRY AND IRON WORKS.

## HINCKLEY \& CO.,

MANUFACTURERS OF STEAM ENGINES, Quartz, Flour and Saw Mills; Cast Iron Fronts for Buildings, Mining Pumps, and all $\frac{\text { kinds }}{}$ Amalgamators, Ma

## 47 \& 49 First Street,

## BET. MARKET AND MISSION, SAN FRANCISCO

ALL kinds of Iron aud Brass Castings furnished at short notico. Every Ald xinds of Iron nud Brass Castings furnished at short notico. Every
style of nlishing to Tron whau cast.
Patern Making in ite various forms. Patern Making in its various forms. WORTH. WM A. FILELD

SQUARZA'S PUNCH.
HOME MANUFACTORY.
No. 44 Lefdesuorff street, near sacramento at.
Branch at 406 Montromery street.
A S. ROCENBADTS \& CO- Importers of pure Hivana Cigars Tobaceo,

## 解tiniry and Sciontific furss.

W. B. EWER, . . .............. Editor.

SATURDAY ................. DECEMBER 20, 1862.
The BGNING AND SCIENTIFIU PREiS is published at the Federal
 virus m mats, Fifty Couts per line Aliberal discount made to quarterly advertisers.

## Wigravings, Electrotypes, etc.

Wr execute at this Office Engravings and Iiiustrations on wood, stone, copper, steel, otc. STERzotpyivg and Elzctropynve, Designs of every des. oription-Buildinge, sketches of Towna, Machiuery, Stamp Dies, Seals for Plail or Colored Printing.

JoB will rork-executed with dispatch at the cheapest rates.
Patrons will remeinber that when we execute engravings we will insert
them free of charge in the Minng AND Scientimic Press, thus giviug the ad them ree of charge inche Mining dind Scientilic Press, thus giviug the advertising Medium to be found inthe country.

## To Printers.

An Interest in one of the most flourisbing and best paying Newspa per OBtes in the mnuntains is nfferen for sale no easy terms. A rare opportunity is herebs preseuted to any priuter desirous of e:tablishing himself in a good business in one of the healthiest, most thriving and delight. ful mountain towns iu the state. For further foformation enquire at this office.

## PROPOSED TAXATION OF THE MINES.

It is well known that a strong effort is being made by some of the leading politicians at Washingtou, to place a tax upon the mines of the Pacific Coast. The Secretary of the Interior, Mr. Chase, is in favor of either a tax or sale, and in a recent conversation witn our representative, Mr . Sargent, as detailed in the Washington correspondence of the Sacramento Union, expressed his opinion that the mines of California could be made to pay the eutire debt of the Union. Mr. Sargent urged upon the attention of the Hon. Secretary the manifest injustice of compelling any one interest to be especially taxed for such a purpose. The Secretary was evidently disturbed in his preconceived notions of mining taxation, by the cogent arguments of our representative, and finally referred him to Judge Edmonds, Commissioner of the Land Office, who has been deputed by the Secretary to collect information upon this important matter. The decision of Judge Edmonds will be final so far as the advisory power of the Department is concerned.
Mr. Sargent, with his usual alacrity, lost no time in presenting himself before the Judge, with whom he had a most interesting and important conversation of some hours duration, the re.ult of which was an evident modification of the Commissioner's views upon the matter, and a full agreement upon the two following important propositions :-
First,- That no nction of the Gover nment ought to be hat by which thowe now in posssssion of mining ctrims, devel oped by their labor or cap tal, or purchased by them, should

Second,-That no systern ought to be inaugurated that will lessen the production of gold, or be burdensome to the miners.
The Commissioner further agreed that no system of sale should be recommended which would allow the mines to fall into the hands of speculators. He expressed a desire to $f$ ster the mining interest on its present basis, at least so far as to eaable men of small means to engage in it, as now. He favored the idea of a license system, or percentage on the gross product. Mr Sargent promptly urged the injinstice and impolicy of taxing anything more than the net profits, and also reminded the Commissioner that even that was now reached by the three per cent income tax. That fact did not appeari to have been previously comprehended by the Commissioner! He remarked, however, that it should be considered.
As the Commissioner was il fexible in the opinion that the mines must be made to yield a special revenue, Mr. Sargent made it his chief aim to effect, to the greatest possible extent, a modification of the measurès to be proposed for the action of Congress. Having accomplished what he could directly, he then urged apou the Commissioner the propriety, before coming to any final conclusion in the premises, of paying a visit to California, and making a personal examination of the mines, and mingling and conversing freely with the miners themselves and our people generally, and thus learning for himself the pecerliar and anomalous condition of our mining community. The necessity of such a trip
to arrive at a correct knowledge as a basis upon which tn act in so important a matt $r$, appears to have been most successfully urged, as the Commissioner is reported, in his reply, to have expressed himself favorably as to the proposition ; hence we may reasonably expec a visit from him at an early day, and rely with much confidence upon the presumption that no legislation with regard to the mines will be advised by the Government, until the natter has be. $n$ thoroughly eaquired iato.
The reported action of Senator Latham, elsewhere refer red to in our issue, to-day, will not be likely to result in anything deffinite during this pendency of the proposed advisory action of the Government. Too much credit cannot be awarded to our vigilant mining representative, for the energy and diligence he uniformly displays in looking after the interests of his constituents.

Tunnelling in $W_{\text {asboe.- Deep tunuelling and other heavy }}$ enterpris' s are becoming quite common in Washoe, in connection with operations hitherto considered of donbtful value, while, at the same time the o!d tuncels are being pushed forward with renewed vigor. The Gould and Curry tunuel has now been driven in 1,350 feet-to midway between $B$ and C Street. Two thirds of this distance is through rock which does not require timbering. The ground is now getting soft and wet, and the drifters are evidently approaching the main Constock Lead, which the engineers expect to r ach within 150 feet and at a depth of 550 fe $t$ below the surface. Important developments are expected to be mude "hen this work is completed. The Latrobe tunnel is pro gressi $g$ at fair speed, the ground becoming softer as the drifters advance. The Monnt Davidson Company are still at work, and the long tunnel of the Ei Doradu, immediate'y south of the Mount Davidson, it is said will be pushed to the Montour Ledge, inside of three months; Work upon the Cedar Hill tunnel is also being vigorously prosecuted, and large expectations of important results are freely indulged in.

I he old Whitman Tunnel, in the Palmyra District, upon which work has been suspended for several months, is again resonant with the sound of the pick and bammer. This tuonel was driven to the distance of about 1500 feet, over one year ago, when work was suspended in consequence of the ledge which was struck being somewhat broken and of doubtful valu-. Since work has been recommenced, the drifters have found better ore. They are now taking out rock which is said to pay at t' e rate of $\$ 100$ in silver to the ton, and a.e in daily expectation from present anpearane-s of something better. The silver exists here in the chloride and sul,hate form, and in patches, not being found pure, or intermixed with gold.

Coal and Ironin Esmfralda.-E. M. Smith and J. F. McFarland, formerly of Stockton, but at present largely interested in mining operations on the other side of the mountains, have presented the Editor of the Sonora. Flag with specimens of the coal and iron from tie Juniata mines at Esmeralda, in which they are interested. The iron ore is a protoxide, a very rich and rare ore. These gentlemen assure us that there is a whole $m$ untain of this ore on their company's claim. The coal, as it is called, in our opinion, is a sort of petrified mineral pitch. It is very influmable, and generates a great beat. Its discovery in that section of the State is most opportune. The Juniata Coal Mining Company, orgamzed to work this new discovery, is regularly incorporated, with a capital stock of $\$ 500,000$. Of this Company, C. W. Kendall, F. Goodell and Albert Mack, all old residents of Tuolumne county, are the Trustees.

Tee Journal of the Franklin Institute states, that "hy incorporating into melted steel from two to five per cent. of Tungsten, there is obtained a steel which is, very dense, hard, and strong -admirably fitted for the manufacture of tools. The instruments made with this Tungs en steel are said to ke $p$ their temper four times as long as usual."
Mining Stocr Sale.-A sale of 1042 shares of Stock in the Sierra Nevada Silver Mining Company, is advertised, in the Territorial Enterprise, for sale to pay assessments to the amount of $\$ 10,211$. The Stock belongs to 57 different persons and will be sold on Monday, Dee 29, by John Middleton, at the Company's office, No. 40, Montgomery street.

INTERESTING EXPERIMENTS IN QUARTZ MINING.
A Mr. Porter, engaged in quartz ınining at Italian Gulley, near Ballarat. New South Wales has been experiment. ing upon tailings from his mill in the following manner. He placed 76 Hbs . if quicksilven in the boltom of a large retort, and then placed upon the quicksilver 225 tbs of tailings. The retort was then carefully closed, and placed upon \& furnace til! the quicksilver was all vaporized. It is argued that in this-manner the quicksilver is brought into immeriţte conLact with every particle of gold which was contained in the sand. The result alleged to have been obtained fron this experiment was so great, that, it is claimed if the samb can be obtained on tons as was here secured on hundred weght, it will be difficult to give even an approximate estimate of the increase to which the production of gold from quatz may be carried. At all events the excitement was so gre,t, in the immediate neighborhoud, as to cause a perceptible at vance in the price of quicksilver ! This experiment was an nounced in the London (Eng.) Mechanics Magazine, nearly a year ago. Whether it has resulted in any practical utility by experiments on a larger scale, we are not informed.
It is a fact, however, quite patent to all engaged in extracling gold from quartz, that a very large percentage of the precious metal is lost in the bungling processes generally ernployed in California, even in the most approved mills and plans for working gold quartz. During a recent visit ts Grass Valley, in Nevada county, we were placed in possess ion of certain alledged facts, which, if correct, are certain] of the griatest importance.
While we were there the mill which has recently been ted up in that place for working silver was made in rea ne.s for running. The proprietors, before putting in any the silver ore concluded torun it for a day upon some ref rock; which lay near by, and was supposed to contain b' small quantity of gold. The rock was known to be suc would not pay for crushing in the ordinary way for wor gold ; as a considerable qrantity of precisely the sathe of rock had been already crushed with a yield below the ing rate. It was thought, however, that there might bly be gold enough in it to charge the quicksilver, at an it would serve to scour up the pans, etc., and put the I good order to receive the rich ore which they were int to work from the vewly discovered silver mines. eight tons were put througl the mill, and to the as ment of every one, when the pans were cleaned up t ${ }^{\text {? }}$ exceeded $\$ 35$ to the ton! We were assured thr ${ }^{3}$ could be no mistake in the correctness of this expi; and results since obtained from simi ar rock from ${ }^{\text {e }}$ vein, whence the poor rock above alluded to was tal ${ }^{\text {e }}$ fully verified the first result. If there is no mistak ${ }^{\beta-}$ gard to this experiment, we are on the eve of ${ }^{\text {it }}$ important era in gold quartz mining yet attaire which will work a complete revolution in that braindustry, in California, and bring into high value th of leads throughout the S ate, which have hitherto onsidered as ent rely worthlest. We hope soon to mething still more deffinite in regard to the results obtained from the application of this new silver pr, the working of gold.
This mill is fitted up for working with the $S_{\text {Dew- }}^{\text {Dew }}$ ey process-a process, which, so far as we have ${ }^{\text {l, has }}$ never been used by any other than the Ophir ay, at Washoe; and although it has been considered. best claim to have knowledge of it, as not altoger best for silver, is nevertheless, we believe, acknow to be highly efficient for gold working. We can oal the the extraordinary yield above alluded to as the rits superior saving efficiency.

Gould \& Curry Mining Company. - At $t^{\text {al }}$ meeting of the stockholders of the Gould \& Cung Company, held on the 15 h instant, the followin Ball, A. elected, viz: John O. Marl, Thomas Bell, Ball, A. T. Lawton, A. B. McCreevy, William M. George
Hearst. At a subsequent meeting of the John O. Hearst. At a subsequent meeting of thr Company
Earl was.elected President. The affairs Coser were represented to be in a flourishing ar ${ }^{\text {erous con- }}$ dition.

Stlver Ore,-Eighty bags of Mexi er ore was brought up by the Oregon on her last tr tosted here.

## MINING NOTABILIA.

A correspondent from Grass Valley sives us encouraging reports of the progress of the work at the Girass Valley silver Mines. The onill is kept constantly rumning with equally
satisfactory rosults as those reported at the first clean up." The Central Conlpany were to have commenced raising rock' on Monday last. The direen Hurn Company is appecting to strike it rictier than ever when they get up with their tunnel. The stoupwa I Company, in another ledyre, near hy are driv are surface. Our correspondent is sanguine in the belief tho this new silver district will soon be developed to such an extent as to compare favourably with Washoe.
Fremonts Fistate.-A recent telegraphic dispatch from St. Louis states that Fremont has negnciations on foot to sell his Mariposa Estate to a large New York Stock Companyand that he will receive a sum sufficient to pay off his debts and have a million or two to spare.

Tue Wide West Mine.-A correspondent of the S. F. Neus Letter has examined one and a half tons of ore from this mine, which appears to be very rich. It was to have been worked in a few days, with some four tons more then on the way to a mill. This crushing will probably fix the value of the mine, and prove whether or not, the indications of its fabulous richness are reliable. Other important devel. opments are expected in that vicinity.

Mrs. Hall's Furnace-Mr. C. P. Duane, Agt. for Mrs. Hall, is now in Washoe and making arrangements for the erection, on a large scale, of one of these Furnaces, near Virginia City, when the practicability of this new invention will be fairly tested. By the usual modes of smelting ore now in use, about 100 bushels of coal are required to reduce a ton of ore. By this furnace it is clamed that the same work may be accomplished by the use of six bushels. Whould bat a small part of what is claimed for this invention be realized, it will prove, not only a fortune for the lady inventor, but a most valuable acquisition to California and the world.

The Sheba Mine.-A large specimen of silver ore from the Sheba Mine. Humboldt District, has been taken to Virginia City and placed on exhibition there. It is some three feet long, fifteen inches wide anil ten inches thick, with veins of pare silver branching through it in various directions. Another specimen of nearly equal size and thickness, was also orought in. We trust the mine may ever continue to abound in just such specimens.

New Development.-It is said that the Utah Company, Virginia City, have struck good rock. If this proves true, it will inspire new confidence in the extent of the Comstrck ledge. This Company, it is pretty generally believed, are working on that ledge, which will no dnubt, incite renew d energy in the development of claims lying between these and others known to be on the Comstock lead.

More Coal-Another coal discovery is reported in Oregon, about eight miles from Jacksonville, on Stewarts Creek. The coal is said to be found there in great quantities.

Singolar Gold Indications.-On the Hughes Claim, near Copperopolis, a kind of rock is found much resembling "c'inker." a substance abundantly produced in furnaces where hard coal is used. Imbeded in this clinker like substance are found sraall globules of gold-the entire appearance, no doubt having been produced by intense subterranean heat.

## [communicated.]

"Nemo me Inpune Lacrssit."-If there is anything the soft headed editor of the Mountain Messenger requires it is what is commoniy called "brains." We"refer that ind vidual to our list of sabscribers of leading officials, merchants. manufacturers and professional men, as published in 10-day's Scientific Press, who we ass rt are in every respect better qualified for thinking or reasoning, than the editor aforesaid. We advise him, that if his ill disposition will not allow bim him to help a good cause, to refrain at least from trying to intimidate it. If we had many such sluggards as the quasi editor of the Messenger, California would indeed soon sink into insignificance. "Nemo me impune lacessit. J. S.

Change of Publication Day.-The Publication day of the Press will hereafter be on Mouday instead of Saturday, ashertofore.

## A MINING BILL.

The telegraph has announcel the fact that Senator I $\Omega-$ tham has introduced into Congress a Bill intended ti govern ali $m$ ning operations, whether in Californin. or on the Eastern Slope. The announcoment appears to hive been quite unexpected in this state, and natura'ly enongh. creates considerahle curinsity if not an actual interest to know what may he the provisions of this new mining Bill. It is possibe that this Bill may have fur its orject the raising of revenue merely. as contemplatedly secretary C'hase, and elsewhere alluded to in our columus to-day, although the wording of the dispatch would seem to imply another ebject, referring more particularly to the internal police of the mines. Califorvians have ever expressed the desire that there should be no legislation regulating the mines on the Pacific Const. We have got along very well for some ten or twelve years under the "Rules and Regulations" adopted in our various mining localities, ald very satisfactorily interpreted by our courts. Perhaps Mr. Lathan may have devised some new method of managing the complicated mining interests of the Pacific Coast, which shall exactly suit the wants and necessities of the people. But the miners are, at all events, desirous of learning upou what basis our distinguished Senator would hereafter place these interests, and in the absence of such knowledge ara very fearful that, should any change in our policy be made, we shall all soon have occasion to regret that we had not "let well enough alone." To our compreliension it appears as though our national legislators had full enough to do withont attempting to disturb a system which certainly works well for the time being and any interference with which, we greatly fear will result in nothing but mischief and disaster.

## THE OPHIR COMPANY.

The Ophir Company has closed with Garrison \& Co., for the purchase of the Old Virgiaia Lead and the settlement of the pending suit between the two Compunies. The Vir ginia City Union says that orders lase been received in that place directing the agents of the Old Virginia Companyto pass over to the Ophir Co., the stock, books, etc. of that concern. The Virginia is no doubt a valuable mine, and probably well worth the money to be paid, aside from the important consideration of a final settlement of all matters now in litigation or likely to come up hereafter as to adverse title.
The receipts of this Company for the year ending Dec. 1st, 1862, have been $\$ 1,680,000$. The working expenses of the mine, during the same period, has been $\$ 746,000$. Expenses for extension of milling wor'ss, $\$ 80,000$, supplies on hand $\$ 250,000$, cash in Treasury $\$ 134,000-$
At the anaual meeting the stockholders held on the 8th inst., the following were elected as I'rustees: Joseph Woodworth, Charles F. Lott, Donald Iavidson; J. M. Livingston, A. E. Davis, Edward Martin and James W. Whi e. Alt a meeting of the I'rustees held subsequently, James W. White was elected President, and Thomas J. Lamb, Secretary.

Amende Honorable. - Several notices respecting miainy affiars as published in the Pre.s last week should have been credited to the Virginia City Daily Un on, a very excellent and valuable Journal with Dr. He ry Degroot as its editor.
The Copperopolis Railload.-Fifty-filty thousind one hundred dollars has been subscribed in Stockton to the cap ital stock of the Copperopolis Railroad.

Our imagination is likely to make our case worse or better than it is.

## Mining Stock Report,

San Frangisco, Dec. 18th, 1862.
The mining market at the present dates is steady with a moderate
 in the Nevada Legislatute, rad the probability of its receiving the governors signature is begining simply to effect low priced stocks.
Ophir sbares are in demand, with but little stock in the market. Only 124 shares were reported in Sin born's Circular, as sold last week, against 468 the week before. It can readily be disposel of for $\$ 2500$ to $\$ 2550$. At the Menting of Stockholders, elsewhere noticed, an ontiro new board of Trustees was elected, with the exception of C. A. Lott, who is continued. Gould \& Curry still continues to advance and has finally reached the higbest figure in the market, although it has not yet declared a dividead. It is firm at $\$ 2600 \mathrm{cash}$.
Chollar still remaius buoyant, having heid its adrance ot last week and is
quite firm ut \$350. Holders are con filunt of realizillg $\$ 100$ advance on Central is quated it \$1.400-a slight deprectailan.
Cithliomat is quated at \$1,200.
Potimi inas horefi hot tittle emyumed for. Small trausactions are quoted at om $\$ 60$ to $\$$ is-A deptre or $\$=0$
Nontha Putisi is quoted at $\$ 0-$ rffered at $\$ 7$.
Sierra Nevada is quoted at from $\$ 60$ to sif. Tbshares changed bande ast week.
Mancey is qutated at 8180 bid- 200 asted.
Huruing Mencow is quoted at frem $\$ 00$ lo $\$ 82 \frac{1}{3}$.
Mannt Iavilnou-100shares changed Landa at from $\$ 6$ to $\$ 8 \%-6$ alight аһร:แне
Meredith is firm at $\$ 20$.
Burnside is quated at $\$ 16$.
lowa quoted at $\$ 130$.
Norton is quoted at from $\$ 13$ to $\$ 17-\mathrm{a}$ slight falling off.
Sacramento is quoted at from $\$ 20$ to $\$ 24-\$ 30$ is assed.
Lucerno is not quoted.
Hale and Norcross is quoted at $\$ 250-\$ 300$ aqked. In the Bullotin's Stoek Eerort of yesterdry it was quosed as suld at $\$ 15-\$ 150$ askod.
Rogers quoted at $\$ 22 \frac{1}{2}$ bids- $\$ 27$ a-ked.
Lady Brymu-quoted at $\$ 3$.

## Esmeralda Stocks.

The Wide West is still adyaucing, and Is quoted at from $\$ 405$ to $415-$ 4202 g generally asked.
sutelope is quoted at $\$ 100$-with $\$ 110$ asked.
SEtua is not quoted. $\$ 8$ is asked.
Silver Hiil is quoted this week ut from 12 to 15 dollare- $\$ 18$ asked.
Utah has buyers at $\$ 20$-hetd al $\$ 30$.
Real Del Monte quoted at $\$ 25$ witu $\$ 30$ asked. An advance of $\$ 5$.

## Coso Stocks.

The Josephine bad bidders, the past weelk, at the Stock Bourd at from $\$ 15$ $\$ 15 \frac{12}{2}$-Hulders asking $\$ 20$ to $\$ 25$.
Coso-\$20 uskəd.
Willow Springs-heldd at $\$ 45$.

## Mexican Mines.

St. Nicholas Silver Mining Co. is qutoted by Sunbora's Circular at $\$ 100$.
Mina Prieta finds nu reoent buyers, but is held firm at $\$ 110$.
Dius Padre is quoted at from 30 to 33 dollars.

## WASHOE STOCK REPORT,

[Compiled from the Deily Territorial Eaterprise.]
The stormy and threatouing weather of last week, readering out donr exstcuce quite uncomfortable, neems also to unve exerted a depressing influence oll stuck transuctions. It is most probable, however, that the coofdence which holders feel in the increasing value of the miues, generally, has more influeuce upoustocks than cither tho weather or the apprebensons of buyers. Prices are steadily advancing, and holders are firm, two facts wheh argue a healthy confilence in the substantial weuth of the mocipal mining operations luow ia process of develonment.
Deep tunnel and other heavy mining cuterpr ises are becoming quite common in conncetion with explorations hilberto consilered of doubtiul value, while the old tannels are bang pushel forward with ronewerl vigor.
Very fuw of the sales nuw being quoted are at figures which fairly repreent the value of the ground conveyod.
The Pride of the Wust is eaid to be taking out the best roak from their mine that has over been struck in the Devil's $G$ to District. This claim thows a clagr e of parm wency which no other in that district has yet reached. Ciaims in Nigger Ravine, of this district, are begrouing to attract cousiderable attention amoug buyors. Prospecting has again conmeuced bere with reuewed euergy. Juch of the stock, however, which is unw crowding the market, frem this locality, ss nut regarded with much fuvor, and few seem dispuseal to nuerate in it at any price. Two years ago the edges of that distriut were largely dealt in, but developments, generally rell so far short of the general expectation, tbat capital now avoids the locality with almost too much severity.
Accoments from Paimyra enntinue to be of the most encouraging charac-
This District will, no doubt, prove a source of wealth to many whe avo lung coatinued to prospect there with little encouragement.
One hudred an 1 thirty feot of Humbolut stock sold, last week,
One hugdred as en an rage price of $\$ 050$, in small tots, ruoging from ten to thirty foet.
Five Dollars is affered for
Five Dollars is affered for Uuion, Gold hiil. The rock pow bejug taken rom this claim, is of a mucil better quality than any heretofore tuken from their mino.
A small lot of Waterhouse sold at $\$ 350$.
Several small sales have taken place iu Gold Hill at low figures.
The Nevada seems to be attracting less atlention than beretofore, although favorable uccounts continue to come in fiom thos, claims. Caledouia is euquired for at low Gigures. Thas Company has struck a rery furmidable lelge in their tunnel, which is also being rua for several other leiggos, which ure supposed to oxist further into the hill.
The North American frequently ehanges hads amoug the members of the Company, though but little is offered for sale in the martet
Baltic is offered at $\$ 25$ pur foot ; Ashland at $\$ 10$; Zouave offered at $\$ 10$ but withurawn.
Baltic and Uucle Sam have been in the market, the past week, at $\$ 20$; cole at $\$ 20$; Oriental at $\$ \pm$; Meretith at $\$ 15$; Sucramento is euquired for but nolle offered.
Santa Rila is in market at $\$ 42$, and El Dorado at $\$ 85$.
Cedar Hill Tuauel is offered at $\$ 550$; Durgun at $\overline{\$}+$; Gov. Ngeat 7 .
There wus but litle demand for auythiug, the past week, although almost anything could have beeu solu at a trife less than the rates asked.

The following stocks, not enumerated above, are in the market in Virginia City, and held at the figures annexed :-


GIFTS, DONATIONS AND SUBSCRIPTIONंS
To the work entitled "The Metalic and Agriculural Wealth of tee Pacific States." The publisher desires to thank the several gentlemen whose names are hereto appended, for their mrgnanimity and aid in behalf of this important work.

Samuel Branaan, Esq., Citizen.
John Parrot. Esq., Banker.
Hyam Joseph, leqq., Citiz n
Ira P. Rankin, Esq., Collector of Customs.
S. H. Parker, Esq., (Jalifornia Postal Agent.
S. C. Bradshaw, Esq., Pacific Metallurgical Works

David Henriques, of the Board of Stock Brokers.
Rev. Dr. E. Cohn,
Rev. Dr. H. M. Bien.
${ }_{\mathrm{J}}^{\mathrm{J}} \mathrm{M}$. Mugarietta, Mexican Consul.
H. Meyers, Citizen.

Henry M. Hale, City and County Auditor.
Dr. J. C. Tucker, of Steamer Moses Taylor.
Dr. J. W. Van Zandt.
James Hitchens, Sup't of Willow Spring Mine.
G. F. Deetkeu, Sup t Metallurgical Works.
E. Torres, Ex-Mexican Minister.
M. Lebatard, Merchant. San Francisco.

Greenberg \& Man del,
A. B. Stanford \& Co.
J. Seligman \& Co
B. Hamburger,

Levy Strauss,
M. \& J. Steinha
L. King,
S. Roseablatt,

Herman Gerstung,
Henry Newstadter
Uhlfelder \& Cahn,
Wm. Meyer \& Co.
Hecht Bro. \& Co.
H. Cohn \& Co.,

Scholle Bro's
I. Bluxome, Jr.,

Chas A. Crane, Esq
E. H. Washburn, Tax Collector, San Francisco,

Jas W. Bingham, Clerk Buard Supervisors, S. F.
C. Bartlett, Clerk Brobate Court, S. F.
M. C. Blake, County Judge.

Rev. Thos Starr King,
John Levy of Braveruan \& Levy, Inporters.
Dr. J. B. Beers, Dentist,
William Fell, Esqu., of Nevada Territory,
H. F. Teshmakes, Esq., Mayor, of San Francisco.

Gen. R. M. Drum, Insp. Dep. of Pacific.
R. B. Woodward, Proprietor of What Cheer House,

Dr. S. W. Kellogg, of Kellogg, Hewston \& Co.
A. H. Housion, Contractor,

Alsop \& Co. Bankers,
St Losky, Levy \& Co., Tobacconists,
Macondry \& Co, Conmission Merchants,
Thos N. Cazneau, Com. of Emigration,
H. B. Platt of Platt's Music Hall,

Johu J. Hucks, Manu acturers,
Thos Baugh, Prop. Merchant's Exchange.
E. Dupres. Broker, San Francisco

William Schmolz, Coiner, U. S. B. Mint.
Rubert J. Stevens, Supt. U. S. Branch Mint,
Coarad Weigand, Assayer
Henry Baker. Cashier
W. B. Goold, Weigh Clerk,

Ogden Hoffman, U.S. District Judge,
Wm. A. Sharp, U. S. District Attorney,
Wm. H. Chevers, " Clerk,
Harvey S. Brown, Attorney and Counsellor.
F. A. Fabens, Esq. A:torn 5 .
F. A. Fabens, Esq. A: torn y.
T. W. Park, Esq.
Byrne \& Freelou, A

Byrne \& Freelow, Attorneys \& Counsellors,
Gregary Yale
Gregary Yale
etc.
etc.
DONAHUE'S

## Union Iron and Brass Foundry,

The First Established in the State.

## Manveracture steam engines, saw and grist

at redused prices. Have now ihe largest and beit assortmators, etc., etc. Machipery Patterns in the State, a list of which will be forwardea to any
ODe desiring it, free of cust.
PETER DONAEUE.
TURNER, MARSH \& OiGNOD, Successors to C. O. Turner \& $C$ C
PALMER, HANSCOM \& Co. Golden State Foundry, and Machine Works
(Formerly Satter Iron Works.) First street near Marbet.
my 23
$\overline{\mathrm{K}}$ ELLY \& WADE, \%mporters and Deslers in Puints, Oils, Turpentine, Etc

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Me talic and Agricultural Wealth of the Pacific States." The editor of this work has recently disposed of the "Mining and Scientific Press," with the riew of deroting his entire attention to the publication of the work; to this end he is makiug arrangements for an early v sit to the Atlantic States and Europe. The work if carried out according to the prospectus. will be one of the most valuadle publications yet presented to the public, and will prove of incalculable bene fit to California and the Pacific Coast generally, in bringing the immense mineral wealth of this region more prominent ly before the Capitalists of Europe. The object is a landable one and ought to be encontaged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the subjects of which he treats. He desires but little aid and that we trust he will readily obtain. The following is the prospectus:


WRIGHT'S PICKS.


JOHN WRIGHT, of Sacramento, has establisecd blimself in San Francirece
 low rates orders from the country promptly attended to. N. B.-
genuiue unless stamped with my namie
JOHN wRIGHT, 511 Market street. je20
joHN WRIGHT, 511 Market street.
Opposite Buttery, Sau Frarcisco
LEWIS COFFEY \& RISDON'S
STEAM BUILER AND SHEET MRON WORISS.
The only exclusirely Luile 3laking Establishment on the Pacific Coas
owned and collducted by Practiral Boiler Makikers. All orders tor New Wes owned and collducted by Practiral Boiler Makers. All orders for New W, 1 ,
or the repairiug of Old Work, executed as ordored, and warranted as 14 quality

Old Stand, corner of Bush and Market Streets.
LETWIS COFFEY Opposite Oriental Hotel, San Francisen, Cal. J. N. RIsdus
READ THIS !
C OAL OIL EXPLUSTON,-ON SATURDAY EVENING, WHLLE MR. BREWW.


COMET ILLUMINATING OIL! Manufactured expressly for Stanford Bros.

BRAND of KEROSENE

Best Family Oil in the Market
STANFORD BRO'THERS,

RECENT PATENTS-Granted to California Invenons through the Pacific Patent Agency, J. Silversmiri, Solicitor:

Herman Camp,-Patent for Quartz Crueher and AmalgaW. H. Ricaardson-Patent granted for Washing Ma-
E. E. Matteson, Nevada: Hydraulic Dèreick. This orention has been illustrated in this journal, and has obained great celebrity throughout the State.
Elander Heath, San Francisco, Spiral Spiu and
Sage Mill. Eee "Mining and Scientific Press," Juve uh, Sage Mill. Eee "Mining and Scientific Pres ${ }^{\circ} 62$, Vol. V., No. XIII.
G. F. Debtigen, Iformerly of Nevada: Apparatus for sparating Gold from Pyrites. This is one of the most aseful inrentions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation. Mr. D bas receutly established himself 10 this county, on the San Bruno Road, wear the Islais Creek, where he bas erected chemical and metallurgical works.
Routeq and Fares from San Francisco to Foreiganal
Domestic crities.
Pacific Mail Steamskip Compnny-Steamers leave for New York via Panama, on the 1st, 11th and 21st of each month. 1st cabin, $\$ 250 ; 2 d$ cabin, $\$ 200 ; 3 \mathrm{~d}$ cabin or steerage, $\$ 100$.

Nicarngur Sieamship line, Ross, Dempster \& Co., agents. -Steamers leave for New York vin isthmus of Nicaragua, on the 21st October, and stmi-monthly thereafter. Price of fare not yet stated.
To Portland, Victoria, \&c., \$60. Crescent City, Trinidad, sc., \$20 \$30. San Diego. Monterey, and Los Angeles, \$20 to $\$ 30$. Sandwich Islands, per sailing vessels, $\$ 100$ to $\$ 150$. Ausiralia, sailing vessels, 1st class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, 1st class, $\$ 200$ to $\$ 250$. Mexico, $\$ 30$ to $\$ 50$.

Califcriia Stenm Navigation Company dispateh steamers daily to-Sacramento, $\$ 5$; Stockton, $\$ 4$; Peta'uma, $\$ 3$.
Overland Mait Company - Stages leave daily for St. Louis via Salt Lake; fare, $\$ 200$.

THE EYES! THE EYES!! THE EYES!!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Francisco Deaf, Dumb
and Blind Asylum.
After a protracted blindness of more than five years. Dr. PARDFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practicing with a success that cannot be surpassed in the United Siates : and a-proof of this he substantiates by many ca-es now in California that have been cured by hin, after having exhausted the skill of the eminent, physicians and oculists of New York city, Bostou aud Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there lus been more blindness from bad and imy roper treatment than from disease itsell - how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what had been formerly done, the almost invariable reply is, "I had my eyes hurned with car stic or bluestone;" 1 was bled and bistered, then cupped two or three times a werk-had a blue pill prescribed for me at bight, and salts in the morning-was ordered in a dark room-to keep my eyes tiohtly bandaged-to avoid the open air and exercise, with fifty other incousistencies, the aggregate of which is sure blinduess. Patients should be careful and not place their eyes at the mercies of a man who does nothing but burn them daily. not investigating the circumstances of each particular case, but ignorantly and blindly adopting and folowing theories the most erroneous, and destructive to the eye. How much more rational and consis ent to consult an experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patients under his daily supervision, and, with but very few cases, they have all bee" treated by other physicians hefore applying to him-and all to no benefit. 'I hose wo are doubtial are permitted to call at Dr. Pardee's office and confer uith the many patients who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artificial Eyes on this cosist, inserted, having all the movements of the real eye, and that theylo $k$ so life like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens by absorption or extraction;-" Plerygium," or fleshy menibranes growing over the eyes. Artificial Pupils, \&c.
OFFICE :-Clay street, above the Plaza-opposite Plaza Hotel-old No. 217 , up stairs.
aug14.

PACIEIC MALL STEADSSHP COMPANY'S Luw to PASABA


## FUR PANAMA

Thu folluring Steamatipa will be -1ispuchent in the month of Decoraber 1862
20ti-idNofa, W. F. Lapidge, Commander.
 at 90 O(LA)K, A. H., fenctialis, And conmece, via Pauatna Rallfenth, at Atpinwall, with steanshups for N. York For frelght or passuge, apyly to
A. B. FORBES, Agent.

Jet
Corner of Sacrambito and Letilestorfís sts.

## REMOVAL.

 Goid 'urh hur duy"
 318 Californa street, mear samame, up stairs.

## LABOR-SAVING

Rock Drilling Meachines. TO EMGINELRA, RALLROAD CNTRAITORS, TLRMPIKE AND QUARRY. $\frac{1}{\text { mand Ithe eulscrother. Butau }}$

## HAND, HORSE,

## STEAM-POWER MACHINES.






 oci 3 mi ] Fremont strect, bet. Market and Mission, San Francisco

## F. G. BEPLER,

PRACTICAL COPPERSMITH, Botween Sansome and Buttery,

San Franctico.
say th it thatkful for the former couldence bestowed upan me, I desire to
 pumps of any kith the requirenl. Also, Kilcheu utenstls for Hotels, Restauram1s athl privatu houses. Baking apparatus for Bakers and Confectioners as well as all other bituts of enppit work.

50 lbs, MAARINE AND FIRE-PROOF PAINT MAvUFaccured by The Paciffe metallurgical works, in this tains Arsenic, Curper, , hitharge and six olther Murouble Shberal Rock con-D-cks or Buttoms of Snips, it is equal to a cosat of stune, and quite equal
Copper, no worme will ever effect it, and cbeaper than any other paint. DIRECTIONS :
For Decks of Ships, use two parts Mineral Puint, ene part White Lead, mix
Fith Linseel Uil Fith Linsecil 01
For Buthmy of Vessels, nse one nart ground sulphur, three parts Síneral Paint, mix with Cual Tar and opply it hot
For sale hy all siup Chandlers
the I'ncitic Metallurgical Works.
25 lbs. Fire-Proof Paint,
When uvel on Ruof, Buildings, or Fencew, it is equal to coneriug them
with a cont of Stone, benog perfectiy Fire Proof, and coastiog less than nay

## priut. DIRECTIONS:

HOUSE :-Mix three parts Miueral Paint with one part white lead, thin ROOF:-Five parth of 3iveral Paint, one part white Lead; mus with
Liasced oil. Put it thick ona tin Roof, as one coat when properly applied will last threo years.
T. Focqee, Super intendent

WORKS, North Beach; Offee, 318 Californiast., SAN FRANCISCO
INTERNATIONAL HOTEL The oldest Established First Class House in FIRE-PROOF BRICK BULIDING.
Most convenient to the Steamers' Lindings, business streets,
Open all night.
NO DARK ROOMSI EVERT ROUM OPENS TO THE LIGHT AND ATR. Nrery room is firnilined with in Girst quality Patent Spring Bed and Family Rooms, uud also sets the BESI' TABLE OF ANY EOUSE IN THE
CITY.

## A. ROMAN \& CO.

WHOLESALE AND RETAIL
BOOK ESTABLISHMENT.
417 and 410 Montgomery strect, SAN FRANCISCO.
On Orders reapeetfully solicited und promptly attended to.
A Trentima on Metallurgy, Cunprising Mimag and General and Particular Manual of Metailurgy, or A Pructical Trentiee on the Chemistry of Metals. Manual of Metathurgy, more paricicularly of the precious metals; but includ lug suelt uthers at are enthoyed in dethat proctice.
Recorde of Mining and Metalfurgy, or Facts and Semoranda for the Use of
tho Bifne Agont and Smelter. By Jaubes l'hillips and John Durlivgton. Pigent ou the Chemistry and Mining of Copper.
J'ratical Mineral Aosay ing mul Mining. Overman

Miners' Companton rath Guide, compiled by silversmith.
Annyyre' Gunde; ur Practical directoons to Assayers, Minere and Smelters. Iractical Assayyg, by Metiell.
treer Ores and silver Bines, by Pro. Blake.
Crris Dhetionary of Arta, Manutactures and Xines.
Welsbach's Mechadies of Machinery aud Eugintering.
Nevillo's Hjedraulic Formula Tables.
Fresenins' Clemical Analyais.
Together with many other worles in this dif similay line
Bonks himported to order on short notleo. Wa

## A. ROMAN \& CO., <br> 417 \& 419 Montoomerv Street.

Gird's BUDDING KNIFE
THE ATTENTION OF FARMERs, HORTICULTURISTS AND CUILERS, OR invention. For descriptiod and engraviug ace Mining and Sciemtific Prese

State, Terrritory aud workshop rigbts for rale at reasonable prices. sepl-3m
3. SILVERSMITH, (Agent for Pateutee,

San Francisco.

## 3ur Beadtung fuir ©rfinter.

Erfinber, weldje midyt mit ber englijdjen Spradje Ectanat fub, fonnen inve Ditheilungen in ber beutiden Eprade madjen
Sfizzen von Erfinoutgen mitfurzen, Deutlidif geqdriebenen Bejdreibungen belicbe man zu aboreffiren an.

Jul. SLLVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery streot., bet. Bush and Sutter,
wholesale and retail dealers in
PIANOS, SHEEET MUSIC INSTRUMENTS OF ALL KINDS, \&e., de.
A. A. GALE \& CO., New York;
T. GILBEKT, Boston
C. MEYER, Philadelphia.

Whose Pianos they have always on hand, tor sile and to rent.
planos for rent.
New Music received by every steamer. New Music published. Music assorted und bound in the best slyle. A liberal discount made to the trade and professors of music.

## V. SQUARZA'S

## PUNTCH HACTORX.

$W_{\text {e present aerewiti the purtrat and trade mark of }}^{\text {the }}$ know in this Stute for his Auti-Divorco Liquere and similar producuons, manufactured by him. We may mention thut Mr. Squarzai is au fall in the chemico-dictilling science, hence the celebrity of his articles. He has two establishwents lor the sale of his famous Puuch-one on Leidesdorf, the
otber on Montrgomery street-which are constantly thronged with our bon otber on
vivants.
The following is a list of his liquors, all of which we have tasted, aud find them the most deticious and barmlees beverages in this city, being pure

## Rura Puuch, Conac do. Arac $\begin{aligned} & \text { do. } \\ & \text { Anti-Divorce }\end{aligned}$ ald <br> Auti-Divo Confue The

$\underset{\text { Teu }}{\text { Piuearple }}$
and unadulterated with drugs or other injurious chemicals:

And CHAMPAGNES of all brands.

## Dr. Van Zandt,

Consulting Physician and Surgeon, OFFICE:
Corner of W'ashington and Sansome Streets.
l'he Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nature, Electricity! Maule Subservient for the Cure of all Nervous and Spinal Diseases.

THAT RHIS PRINC1PREE, successfully applied to dikeasod states

 obviathe dibeased action. Too Much Cammot Be Said


 is there nut in war uf forcts suing ou in our system? This necels correcting?
and it order that the tinsues ol the body should be euscoptible to remedial agents wo nusit firat restore and

## Awaken the Magnetic Lite Withan Us,

The spinal and symbuth tuc nerre gynems. Benceving is I do most farmly
 prens, lirough which to twakel attention to tho snbject, that good may

No Compromnse with Disease.
Give the body strength, and viluro will relieve herself. Purify the life bloud, render the stomach, hwer, heart, kuduey and all the natural func-
hous achue by ELBC Thl'AL exctanom, aud at once the ared, the patsied, the mervous, the dispiriten, the melanchone, the dyspectic and the invalid
revive under its bengin mucuce.

## Dr. Van Zandt's To the Ladies or Califormia.

ofice pructice, is owneng to bis correct vituve women, both in family and
 uphn human jlls-but is proving himself the only member of the leatimate
 cately intuhed her rous organism, together with their great sympathetic

 rest those drains which cause so much anxiety ; sure those protean maladies which have soloug
Baffed the shill of Physicings.
Develon appetite, life and atimation, dispel arrvous heudacho, sinking at the stomach, waudering pams, wanting away of struagth; extreme debility oud litelessubss, bectic cough, stecplesstues, unpteasutut dreans and that general depressiou of life's powers, which go to reuder her life a misory
and death a boon. Dr. Vau Zanath, with his lew method of exerting the Electro-Gaivanic current, Lngether with his remedal measures which are
adapted to the yecessilles of Culifornia, will issure you if a complete aud radicul recovery of all bodily and mentul intirmities, and will restore jur to usefalness, and spare you a bleesiug to your family and to society All the World Over
Wherever disease exists, Whether special to the soil and elimato or common to all regions-epidemic ut chsunl, acute or chronic, contagious or non-contagious-it is as necessary to restore the fLECTRO-GALYANIC equilibri-
um , cispeuially in Californai, as it is to give fual to the starving. This stateum, cspecially in californsia, as it is to give fubd to the starviug. This stateverefied by hupureds of patients ; so that no principle of science, no rule of experienoe, no requat of any well known cause, rests upon more, sure and uuassalable firundutions, thau those which undertie the world-wide reputa-
tion of Electricity for the cure of all vervons states of the body faulty digestion, meu al und pliysical debility or prostration, coughs, asthma, wandering palas of a rLeumatic, gouly or mercurial character, and all forms of disease, the resull of scrolula or cawhectic babit of body,

## None Necd Dospair of Relief.

If you have uleers which will uot beal-puins thut caunot be removed-
melancluly which you cimbot shake aff-loss of powor whath gan-dusression of spirits which woigh you down-wukelulness that knows no kleepiug-business that languishes for want of enerry-a void which no
society can fill-suspiciou which no assurance can fllay-Go to Dr. Yan

 radicul removal of all bodily and mentai infirmities, within the scope of


It must not be forgotten by the eyo and ear sufferers that Dr. Van Zand as mule these atbictivns an caprecial study, and that to is the ouly Surgeon en our state, who has a chplomatur that branch of practice. Very
ionay of the eyeaud ear troubles are purely deranged nervous actions, and are cured by his electro-galvauic battery-as amausorie, squatiag, cataract, flouting specks before visiou, twitching of the eyelids, , , ervolas deatness,
roariug aud buzzing noises in the ears, giddiuess, etc. All opurations sucasstully done on those deticate organs ol seuse.
Ofice-Coruer of Washiuglon and Sunsome streets.
nov29-3m

## FREDERICK KESMODEL, Cutler and Surgical Instrument Maker 81f KGARNY STREET,

Between Juckson and Washingtou streets,
SAN FRANCISCO,

R $\mathrm{R}^{\text {ECEIVED a diploma at the Fair of the Mechames' Institute, September, }}$ The atiention of thuse afllicted with HERNLA, or Rupture, or any one interested, is calleil to his new method of fitting and adapting Trusses to the difierent cuses. It is a well known fact that there has as yet been no syatem of fitting Trusses. There are many different siyles which have proven good
in many cases, but they are all uncurtain and eanuot be r lied on in many cases, but they are all uncortain addeanuot be $r$ lied ou, und in tages I chim fur these Trusses a jove avy and all others: First-The Pad is
forraed on the parts to be compressed by Laleng a plaster cast. Secund material, such as horn, itory, ete. Third-The Ined is so adjusted to the many other advantages. Examine and judge for yourselves it. There are

Our Mint, its Rules, Charges and Operations.
In the columas of a contemporary we observe some ex ceedogly interesting statistics of mint matters fur many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857, while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was ouly $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in lact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytwo per cuht., against two per cent., wasted by our branch mint. The total expenditures for three years under Messrs Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expenditures for four years were but $\$ 1,150,6+814$; while the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100.000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balance of appropriation due the mint of up wards of $\$ 86,000$. This certainly is a capital- showing for our mint, and speaks well for Mr. Hemspstead's Superin tendency. Under Mr. Stevens, the present Superintendent, we have no doubt everything wil work in an equally satis factory manner.

For parting silver from gold when gold
is betow $300-1000$ ths. fine.
"from 300-1000ths. to $750-1000$ ths fine. 7cts Deposits Silver Bollion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage
Refining charges (only where gold is contained) proportion of goid 1 to 300 , 3cts. per oz. gross weight

$$
301 \text { " } 500,7 \mathrm{cts} \text {, }
$$

16 Deposits for Fine Bars
$\$ 1$ 16-4-11ths cents. per standard ounce, 16 per ct gross value of silver for making bars; also when gold is contained t上 per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinert.
$\$ 1$ 2lets. per standard oz. 拍 per ct. gross value to be ad ped for making bars.

Deposited for Dollars
\$I 16-4-11ths. per standard oz. $1 / 2$ per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

## Deposited for Imported Bars.

\$116-4-11ths, cents por standard oz. $1 / 2$ per ct. gross value of deposit for making bars.
In regard to the deposits of Washoe silver, the rule will hereafter be, that the value of gold contained in the same will be paid in gold coin, and the value of silver in silver coin. The value of the silver will be calculated at $\$ 1.21$ per standard oz, and is exempted from the coinage charge, unless deposited for silver dollars, ia which crse a charge of $1 / 2$ per cent. will be made additional. Bullion of the above denomination will be entered on the gold and silver register, as most congruous with the physical aspects of the material, but in the warrant it must be marked that so much is to be paid in gold and so nuch in silver, according to the con tents reported by the assayer. The above rules, and charges were promulgated on July 10th, by Superintendent Robert J. Stevens.
U. S. Branch Mint, Noy, 6th, 1861.

On and ufter the 15 th inst., a charge varying in accord ance and the character of the deposit, from half a cent to three cents per oz.e, gross, in addition to the geveral rates, and be imposed on all bullion deposited for coindge or manufacture, which will require toughening or extra refining to render it suitable for mint purposes.

> Robt. J. Stevens, Superintendent.

## Regarding Patents.

We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining
the same. Our arrangements are such that we can hare all the same. Our arrangements are such that we can have all
the papers prepared,transmitted and returned, with the Patent Right, in three monthe from the time the applicant places the matter into our hands; thus saving at least three months delay.
The expense to the applicant would be rather less, if the business be done by us, than if the papers were sent to New York or Washington.
Thus by patronizing a home institntion, our inventive citizens can save both time and money.
We have prompt, intelligent and reliahle agents in the city of Washington who attend punctually to all Patent business sent to them. We hare agents, also, at London,
Paris. Brussels, Hamhorg, St. Petersburg, Berlin, Vienna, Paris. Brussels, Hamburg, St.
and other European capitals.

Pacific Patent Agency.
J. SILVEESMITH,
SOLICTTOR.

MINING AND SCIENTIFIC PRESS.
THE ONLT MINING, MECHANICL AND SCIENTIFIC
Paper on this continent.
THIXD TEAR: VOLUME VI.-NETY SERIES।
862 Aew volume of this extensively circulated paper commenced Sept. 11, 1862. It is intended that every number shall be replete with information
concerning Minius, scientific, Mechanical and Industrini pursuits, togethe: with several original engraviugs, of uew inventions, etc, purepured express 1 y Cor its columus.
This paper is
iscience, Arts, Atriculture aud Compuerce, zuget aly weneral information or to syy be of interest to tie reader : and it is the intention of the proprie. or to spare no pains or expease in making it equal in interest and valuable formation to day paper yel publisued.

The Mining Interest !
Will find it of great value, as it will contain all the nems appertaining to Gining, the prices and sales of S1wing Stocks, new inventions of Machinery adated to tuat purplose, and of everything generally that may be of service
on the 3liner.
The Inventor !
Will Gnd it an excelletit medum for the purpose of bringing his invention
into notice, of ascertaningt the progress of inrention in this and other noo notice, of ascertaining the progress of incention in this and other
countries, and also or reciving any ivformatiou that may be necessary in obtaining his patont the prenrietor having had great experience as a
Patent Agent, together with ficilities at Wailingtou that exaule him to ob atent Agent, together with
The Mechanic and Manufacturer !
Till be greatly bencitted oy its perusal, as each number will contan ser
oral origioal engravings of new machines and inventions, togother with eral origival engravings of new machines and inventions, together with
targe amount of reading matter appertainilig thereto. Wo are coustantly trge amount of reading matter appertaining thereth. We are enustantly
reciring the best scientific jurnals from all quarters, fron which we
shall continue to extract whaterer may be of lenefit or interest to


## Teaters.

To Chemists, Architects, Millurights and Farmers ! This jourual will be invaluatle, All uew discoveries iu Chemistry will be
giren, and a large amount of informatiou of great service to Architects and giren, and a large amouut of information of great service to Architects and
Srillwrights will be found in our columus. Tbe Farmers and Planters will
not we neglected engravings will be given of arcicultural implements, aud not be neglected, engravings will be given of ngricultur
the farming iuterest generally will he amply discussed.

Fire Conies for Six Months, $\$ 8$.
Teu Copies for Six Monthe, $\mathbf{\$ 1 6}$.
Ten Copies for six Monthe, s16.
Ten Copies for Twlulve Munths, $\$ 30$
Fifteen Copies frr Twive Months, $\$ 44$.
Twenty Copies for Twelve Months, $\$ 56$.
For all chabs of Twenty and over, the yearly subscription is only $\$ 280$ fames can be sent in at different times and from different Post-officos
Specimen copies will be sent gratis to any part of the country W, B. EWER, Publisher,
Room 24, (formerly) U. S. Court Building, Corner of Washingtern and Bat-

## OPPOSITION

People's Line to New York. ROUTE CHANGED FROM NICARAGUA TO ISTHMUS OF PANAMA.
Through in Twenty-one Days!!!
RGS FIVE DAYS AHEAD OF THE MALL.

## The fast and favorite Double Engine Steamship

 HERMANN, 3,000 TONS,E HOWES
Commander

## PANAMAA From Mission street Wharf,

## TURDAy,

DECEMBER 20. 186a
Connecting at Aspinwall by the Panama Railroad,

## AMERICA,

2,000 Tons. .............JEFF. MAURY, Commander.
The America has proved herself the swiftest Steamship afloat, and in coming to Aspinsanh.
The Aloses Taylor is known to be the fleetest ship on the Pacific, and pas-


THE PEOPLE'S LINE
Has been established to ఐeet the universal demand for an

## OPPOSITION,

## 

Reduced Fare, Good Accommodations, and Quiok Trips.
 oc7
Dec. 1 st-St. LOUIS, Captain E. S. Farnsworth,
i $11-$ GOLDEN AGE, W. H. Hudson, Commander
D. J. B. BEERS-Dentist, 617 Ciay street. All operatious on the tecth
performed in the most skillfil and approved manner.

Wint \& Co., Importers of Hirana Cigars, Tobace
H. Howsin. Coffee and Dining Saloon, and Bakery No, 168 Clay atreet
mil bet. Montanery and Kearny.


## MIUSIC! MUSIC !! MUSIC!!!

A. KOKLER,
mporter of etery description of
Musical Instruments and Musical Merchandise. Sheet Music and Music Books.

GENUINE ROMAN STRINGS, \&c., \&c., \&c
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS.
Wherever these instrumeuts are kuown they
$R A N K$ AS THE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KOHLER, Agent for the Pacilic Coast.

## Melodeons and Harmoniums, MASON \& HAMLIN

Warranted superior to all others.<br>0c7<br>A. KOKLER; Agent.

## CORNS AND BUNIONS REMOTED.

DR. BYRON C. KENNEDY, practical Chiropodist, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such as Coras, Bunions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Ulcers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A. M., and 2 to 6 p. m. Having devoted six years of study to this important, bat too much neglected. brunch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my specia'ity for nine years. enables me to operate skil fully and saccessfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lotty position in the profession.
Voizin is an illustrous example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kennedy has fully equ:led him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that be is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks for itself, was written by Dr. W. L. Sterens of the University College of Pbiladelphia
Dr. Broon C. Kzaneny: Dear Sir-Leardiug that you are going to take Your departure far Califorraia, and wiehing to inform the citizens of Phila.
delption aud also the people of the State of Californial the estem in which delphim and also the people of the State of Califiornia tio estcem in which
we hold you, and kuowing that nothug is more essential to your zuccess than the encouragemment whith you may recerve roment the people of phila-
delphin, in the midst of which is the placeround of delphia, in the midst of which is the plagground of your boghood, and
korwing that you have deroted years of siudy to this important but too much neglected branch of human krowledge; that you have attained to the highest rank in your prnfession, seroral of the Facuity and other prominent
citizens of Philadelphia having sulmited to your manipulation, we can recommend you with confidence to the citizcne of San Francisco, as one of the
mont skifful curgeons of the nge, and we hope your success may be such as most skilful curgeons of the nge, and we hope your success may be such as
will repay you for your years of study, nud that you may find a broad fleld or your exertio sin the new and growing city of the Pacific.
WYe subscribe nurselves yours,
We subscribe nurse
Rev W Stantor, LKD
Ruchard A Yanx,
Dr Straud, I D,
Mr Loumis, in D,

## S W Foward, Att'y at Pierce Butler, leary B Linton, M D, Wm Howner, Mi <br> Heary B Linton, M D, Wm L Howard, MD, Plillippe Lify, M D,

Clepole Stpvens, MD,
Smuel Pancust, MD,
Walter C Foster, MD,
Myers Dawis, $\mathrm{M}_{\mathrm{M}} \mathrm{D}$,
W Thompson, M , and others.
No. 718 Cathariue street-tbis is to certify that Dr. Kennedy bas removed corns and bunions of my feet, which have annored me for fears. He also
remove a cancer from my middle finger, which I had no use of for a perind of six months. I cordially commend him to the sulfering humanity of
Philadelphia as a skilful surgeon. Joha Corbett, M D,
Capt McClure,
Wm Hills, Jr,
Rev Walter W Straton, LLD,
Rev walter Howard. Ati'y at Law,
Sannuel wh
$\left\lvert\, \begin{aligned} & \text { Mrs Smith, Greene street, } \\ & \text { Mrs W L Howard, }\end{aligned}\right.$
Mrs W L Howard,
Walter of Foster, Com Mer, Third st,

| Cleopole stevens, Pharmacentist, | Mrs W. Patridge, Walnut street. |
| :--- | :--- | :--- |

From in. W. L. Sterens: Dr. Kennedy has operated upon my feet, and has
effectually cured me of gome torturing pesta that $I$ have been annoyed with for years.
From the Rev. Walter M. Thompson: This is to certity that while sojourn.
ing in Phitadelphia, Dr. Kennedy has operated on three of my family to my ing in Phitadelphia, Dr. Kennedy has operated on three of my family to my
entire satisfaction. From the tion.
From the Bon. Wm. M. Thorn, ex.memher of the Ohin Legislature: This is to certify that I ealled on Dr. Kemnedy to nomate on my feet: Me displayed
great skill as a surgenm, and I am satisfed that he has eflectually cured ros great skill as a surgenm, and I am satisged that he has eflectually
ot those torturing pests which have annoyed me tor many years. From Geo. F. Omerly, 687 Arch street: This is to certify that I called on
Dr. Kennedy. He has operated on my feet to my entire satifaction. au21


A JOURNAL OF MINING, AGRICULTURE, MANUFACTURES, SCIENCE, ART, OHFMISTRY, INVENTIONS, ETC.
VOL. VI. S.IN FRANCISCO, MONDAY, DECEMBER 29, $1862 . \quad$ NO. 9.

Tre upper of the three accompaning en gravings represents a perspective view of a new amulgamator recently patented by Mr. Zenas Wheeler, of this city, as it appears when at work.

The engraving upon the left represents the amalgamator opened. In the bottom of the pan M are seen the dies LLLLL. The inclined spiral ledges $K K$ on the side of the pan are designed to create an upward current of the pulp by which it is forced again to the centre of the top of the muller, and thence though a proper gpening, underneath the same, for re-grinding. Ihis current is kept up, so long as the machinery is in motion, and by thus constantly changing the particles, every portion of the ore js soon reduced to an impalpable powder, and in much less time than by the ordinary mullers, where no such current is established. The letters GGG G represent the muller raised from its place in the bottom of the pan with the face turned toward the observer, exhibiting a set of ehoes, which, like those in the bottom of the pan, are also moveable, and may be readily replaced when worn ont. The letters I I represent supports for the stationary wings D D D as represented in the engraving upon the right. The office of these wings is to aid in forceing the current of ore to the center of the pan as described above.

A, in the engraving upon the right represents the support of the inner end of the wings which are adjustable by the screw H upon the top of the shaft $\mathrm{C}, \mathrm{B}$ is the driver which carries the muller E. G G represent


an end view of the shoes on the face of the muller. F F are inclined spiral threads on the outer edge of the maller. which in connection with the spiral ledges on the pan create the upward current as before described.
The steam pipes represented upon the left of the upper figure are designed-the lower one to carry steam to the steam chamber, beneath the bottom of the pan for heating the pulp, and the upper one to convey the steam directly to the pulp in the pan.

We would call the especial attention of readera to the article on our second page under the head of "Electricity in Medisal Practice." After reading that they will lose nothing by perusing the advertisement of Dr. J. W. Vau Zandt, on the seventh page. We would also take occasion to say that the article alluded to has not been prepared at the suggestion of the Doctor, but solely with reference to the importance of the subject in a scientific and hygienic point of view. Should any of our readers, either medical or otherwise, entertain views opposed to those therein set furth, we should be pleased to hear from them, and will mast cheerfully accord them room in our columas.

There are at present in San Fhancisco five institutions in which Catholic youth are educated in the best and most complete manner, free of cost to their parents.

Welding Iron in Vacuo.-In a commun cation to the Academy of Sciences, at Paris M. Faye, according to Galignani, has given the following account of some experiments, in which M. Ruhmkorff took part. An iron wire was cut in two, and the ends brought into contact without any mechanical pressure: this done, by means of an electrical current the wires were heated to a dark red in vacuo, and they were thus instantaneously welded together. The wires were at an angle of 150 degrees ; and yet, with that inclination, they supported a weight of upward of three kilogrammes, before breaking at the point where the welding had been effected. The same experiment, made in the open air, by way of a counter-proof, led to no result, Encouraged by this success, M. Faye heated a thick iron cylinder in vacuo: it had been sawed in two, and the parts then joined together by two screws. The latter having inadvertently been made of brass, they began to melt dnring the heating process ; but although but a very small portion of the metal had actually become fluid, it penetrated by capillary attraction, aided by the vacuum, into the smallest fissures; soldering the two pieces with extraordinary nicety.

Silver in Tuolumne.-Reist \& Co.; pro prietors of an extensive quartz mill and a prich vein near Rawhide Ranch, in Tuolumne county, are putting up an improved apparatus for extracting the silver from the ore found in their rock. They have lately ascerta.ned that their rock is nearly as rich in silver as in gold.


Electricity in Medical Practice.
Among the many new and wonderful applications of Electricity, that of its recent use in the practice of medicine, is not the least important to the world. That this principle can be sucerssfully applied to diseased states of the system, in a large portion of the diseases to which human nature is more or less frequentiy subjected, is begining to be quite apparent to medical practitioners. That it is destined at an early day to be received as the great-looked-for necessity, to aid medicine in overcoming organic and functional derangement, and render its effect uniform and reliable, is bebecoming more and more apparent in the minds of all practicing physicians, who are willing to allow that every attainable truth with regard to medical practice has not already been discoved, and years ago reduced to practice and recorded in books of medical science.
"It is now established, beyond a doubt, in the minds of all liberal practioners, that the muscular contractions, which give action to a living limb or organ, corresp nd to currents of electricity existing there in appreciable quantities. That elecrricity is the living essence, that it is the vitality of all vitalities, that it is the great imponderable, subtle, circulating principle of life can be no longer questioned. In animal life the brain being the great battery, the nerve-cords, its conductors, pass from it and the spinal cord to every organ, tissue, vein and artery, runaing along with the great circulation of blood, imparting by its way its vitality, which enables the assimilation of all the principles going to sustain life, each to its proper tissue of the body.
If this is essential to life, how can diseased states of the system respond to medical agencies, when the great conducting, essential, and life-maintaining principle-Electricity -is not present or is broken in its current, or is wanting in its proper and healthy equilibrium? Surely the part must die without this great life-giving agency is first restored ; and when once alive, when the healthy current is restored, vitality is restored and the response of nature inevitable to the agences used for the relief of disease.
How often do we see the excited mind cure the suffering body. The sway of will thoroughly stirred into action often transcends the curative power of medicine; and what is this excited mind and sway of will, but the electro-magnetic forces of the battery of the brain, arousing and bringing into life the restoration of that absolute and requisite nervous fluid, upon which alone the energies of all parts of the system have being.

Who has not seen-what physician has not witnessed the death of men and women, when in their own minds they felt they could give no reason for such decease: that an examination after death would show no cause? Take for example the late decease of a certain bold and great original surgeon of this city. "What did the faculty say?. Why some were of opibion it was softening of the brain; and what is softening of the brain but the destruction of the nerve matter? All witnessed his life pass away, his usefulness abridged-all saw his sight stricken from him in a moment, and again restored after a time-that be was attended by the most eminent and skillful physicians of our city, and he died worn out-the great battery of nature was deranged in its action, the nerve cords of his body which course side by side with the arteries and veins to every organ and tissue, whose proper function and office it is to vitalize and give life to the properties of the blood, had ceased their office; for the reason that the great fountain of electricity, the battery of the brain, was destroyed, its equilibrium was lost, its action per-verted-and however correct the diagnosis of his attendants, his body could give no answer in response to medicines, for the great fountain of life ceased to enforce that energy necessary to the carrying on of health."

Thousands of lives go quietly out, every year, from nameless causes, which baffle every effort of the skillful physician -his medicines refusing to produce their usual effects, from causes entirely beyond the reach of his knowledge. In most cases of this character the experience of those who have adoptea the modern theory of the electro-magnetic and galvanic action constantly going on in the healthy system, tells them that the great disturbing cause is the diseased condition of the brain-battery and its attendant nervercords or conductors which can be reached and re-vivified only by an artificial applicaliun of this great life giving agent. The theory of Electro-galvanic treatment of disease, as an adjuvant
or aid to medicine is rapidly gaining ground. The everyday experience of those who employ this agent in a liberal and judicious manuer, is convincing inits effect, and conclusive of the inportant fact that it matters not from what cause disease originates, or how obstina'e the case, nor of how long standing; recovery by this mode of treatment, is more certain and more speedy than by aily other-for the electric current woill arouse the system from the depression caused by disease, which may have baffled the skill of eminent Sargeons ; to place it withiu the reach of ordinary medicines.

## COPPER.

An occasional correspondent of the Alta, of this city, recently gave a detailed account of the copper mines of Cala veras county, from which we condense as follows:

There are two principal copper districts in this county, divided by a low course of hills, but both in the same range. The one is known as Copperopolis, located about thrty five miles from Stockton; the other is known as the Gopher district near T'elegraph City, about twenty-nine miles from Stockton. The two localities are in some degree rivals.

## COPPEROPOLIS DISTRICT.

The "Union," and "Keystone" are the two principal mines in this district. Then comes the "Empire," the "Calaveras," the "Webster," the "Kentucky," etc.

The Union Mine is taking out ore at the rate of twenty to twenty-five tons per day, fifteen of which they are sending to this city for shipment. The Company is formed of thirteen shares of 150 feet each, principally owned by Lolor, Meader \& Co., and their Boston correspondents. The ore averages 20 per cent., and a dividend of eleven thousand dollars per share will be declared next [this] month. This mine employs 110 men and has very extensive improvements.
The Keystone Mine is shipping about one hundred tons per month. It is incorporated, with Mandeville, the late Surveyor General, as President. The shares of one hundred and fifty feet are held at a high figure.

Otaer Copperopolis Mines.-The Empire is believed to be a continuation of the Union lode. It is being thoroughly prospected, but is not yet upon the copper. The Webster, Kentucky, Calaveras, etc., are all in the same position, and offering every inducement for continued workings.
These mines about constitute the strength of the Copperopolis district. The Union is, of course, the back-bone, and gives employment to a great number of miners, timber cutterf, teamsters, etc. It is being admirably developed under the superintendence of Captain Hardy, and bids fair to be worth millions of dollars at an early day.

## THE GOPHER DISTRICT.

The mines of this drstrict are six miles nearer Stockton than the Copperopolis belt. A long mountain road is avoided, and a saving of two dollars per ton effected in hauling the ore.
The Napoleon Mine is located in the Gopher district one and a half miles South of Telegraph City. It is the principal mine in the district, and the only one regularly shipping ore. It holds 2700 feet upon the ledge, is iucorporated and is being dereloped with an energy and ability seldom equalled in mining operations. A village has sprung up around it; and the Company's houses, machine shops and steam works have gone up like magic.
It is stated that A. J. Moulder, the present Superintendent of Public Instruction, is to be the Superintendent after the first of January. Mr. Moulder is a thorough engineer, and the mine cannot fail to succeed under hus management. The Company is now taking out about 200 tons of ore per month, from a depth of forty-five feet. This ore is assorted and something over half of the whole amount is shipped. Cornish workmen are chiefly employed. The stock of this mine is all held in this city.
The Camp and McNulty Mrne is located about three quarters of a mile from the Napoleon. Very promising ore has been struck. Fifteen tons have been shipped as a test sample. Eight men are at work upon the mioe.

The Star Clain, between the McNulty and Napoleon, is as yet undeveloped.
The Live Oak Mine was originally located by Mr. Borch-
eighty feet. It is chiefly ownen in this city. The wolk upon the mine is being prosecuted with much energy by Mr. Botcher, as Superintendent. Its value is a mere question of time.
Tras Hugies Mine, at Quail Hill, is chiefly owned by Hiram Hughes, and is mined lor gold as well as copper. Mr. $H$. is developing this valuable claim according to his own views. It disp'ays a mass of rich carbonates of copper, and yielded largely in gold during last year. At present the workings are limited, but at a future period the value of this large deposit of mineral wealth will be fully appreciated.

New discoveries of Copper are constantly being made in this (Calaveras) county. The Calaveras Chronicle of Dec. 6th says a copper mine has recently been discovered at Hug Hill, in Salt Spring Valley, which is rapidly being developed and promises to become one of the riehest in the county. New leads are being found in the vicinity of Campo Seco, and the old ones are proving rich. The town is rapidly increasing in impoatance.

## copper in sonora county.

The Sonora Flug, of recent date, says that J. Oliphant \& Co. who have been engaged in prospecting for copper in the neighborhood of Montezuma, for several months past, have at last "struck it," at a place about a mile to the north of the town. The lead consists of two separate veins running parallel and close to each other, about eighteen inch es thick, each.
The Democrat, published in the same county, of late date says deep tunnels are being run tnto the Melones copper lode, and it is expected that the rein will soon be struck.
copper in placer county.
The Auburn Herald of the 13th inst. says:-"We were shown yesterday a specimen of copper nre recently discovered about seven miles from A uburn. Thrse who profess to know inform us that it is much richer than any that has yet been discovered in Copperopolis. It was an old Copperopolis miner who discovered the lead. He has already formed a company for the working of the mine

## COPPER SHIPMENTS.

The Napoleon Copper Mining Co. shipped, last week, sixty tons of ore to New York, by the ship Logan, This is said to have been the first shipment to that city. Boston having previously monopolized all the shipments to the Atlantic states.
Minerals in Maine-Very important mineral discoveries have recently been made in Maine, Canada and New Brunswick:
There is considerable excitement in the region of Lubec on account of the discovery of valuable metals and ores, esm pecially of lead and gold. Prof. Shepard, of Connecticut, is now prospecting for mines and minerals in eastern Maine, and the adjacent provinces. His opinion is that Washing. ton county is exceedingly rich in minerals. He says they have just struck a lead mine more valuaiole than any other one known in the world, far exceeding the Missourian mines which he has examined. He backs up his opinion by investments and shows his faith by his works, for he has purchased five thousand acres of land in the town of Cutler, which embraces five miles of seacoast.

Tax on Coal Lands.-The Commissioners of Internal Revenue have decided-lst. The owner or lessee of coal lands must have a dealer's license in order to be authorized to sell the product. Producers of coal are not required to take a manufacturers license. 2 d . Owners or lessees of coal lands who take out the coal solely for their own use, as manufacturers, must pay the tax, as the coal is used for consumption. 3d. Coal dealers whose sales are less than $\$ 600$, are liable to the daty; for not being manu'acturers, the provisions of section seventy-three are applicable. 4th. Wagoners who purchase coal by the load, from the dealers, to sell to customers, are to be rated as peddlers. 5th. Steamboats are not manufacturers. The same is true of cual barges.

Postage on Books.-It is not generally known that an act was passed at the last session of Congress reducing the postage on books sent by mail, to the rate charged fornews-papers-one cent an ounce in the State, and three cents when sent East. Heretofore the postage on books was the same as letter postage. Parties, therefore, can send books to their friends in the East, at a trifling expense.

## MINING AND SCIENTIFIC PRESS.

SAN FRANCISCO MINLNG NOTICES.
The Succor G. \& S. M. Co. will hold its annual Meeting, January bith, l8ti3, at its Ulfice, Nos. 1 \& 2, Montgomery Block.

Wide West Mining Co.-The Secretary of this Company putbishes an impurtant notice to stockholders, in the daily pap.rs.

Rueso River Mining Co.-Ten cents per sfare has been Iovied upou the capital Stock of this Company, payable Jan. 14th.

Hawley Mining Co.-Annual Meeting for election of Trustees will be held at Office 204, Front St., Jan. 5th.

San Francisco S. M. Co. have laid an assessment of $\$ 25$ per share, prayable on or before Jan. 1st, 1863.

Gazelle G. \&s. M. Co. will hold annual Meeting Jan. 7th.
Pacific Quicksilver Mining Co.-Assessment No. 3, of $\$ 1$ per share was loviod, Dec. 22, payable immediately.
Kuyst ine Copper Wining Co, advertise for preposals to purchase or treat 3 d quality copper ore. Proposals received till Jan. 15th.

Mammuth Ledge Mining Co.give notice of an assessment levied and payable ou or before Jan. 13th. Also that the first annual Menting fur the election of Trustees will be held at office, Jan. 17th.

Miners' Meeting.-At a meeting of the shareholders of the siegel Mining Compauy, it was resolved that a meeting be called of all the miners of the Siegel Miniag District, for the purpose of making laws by which said District may be groverned, and that said meeting shall take place on the 15 th day of January, 1862, in said Siegel District, iu or near a certain place beiter designated as the Siegel Min ing Company's Cabin.

Hale \& Norcross S. M. Co. have levied an assessment of $\$ 5$ per share payable on or befure Jan. 25th.

Curares Cant Mining Co.-An assesment of $\$ 150$ per share was levied on the stock of this Company, Dec. 14th, 1862, payable on or before January 14th, 1863, at office, 338 Montgomery St.

Live Oak Copper Mining Co.-Office, Montgomery Block - An assessment of thi, ty cents per share wus levied, Dec. 1st, 1862, payable in thirty days.

North Potosi Shiver Minina Co,-Annual meeting of Stockholders will be held on the first Monday in January, 1863.

An assessment of four dollars per share was levied on this 16th, 1863, at office, Cor. Batterg \& Washington Sts.

Merediti Gold \& Silver Mining Co.-An assessment of two and a half dollars per share (five dollars per fo $t$ ) was levied by this Company. Dec. 11th, payable immediately, at office, 712 Montgomery St.

Red, White and Blue G. \& S. M. Co. levied an assessment of 25 cunts per share, on the 10 th of Dec , payable with in thirty days, office cor. Pine and Montgomery Sts.

Bulcion G. \& S. M. Co.-The Stockholders are notified that they will hear something to their advantage by calling at the office of the Company, cor. Pine and Montgomery Sts.

Chdar Hill Tunnel Mining Co,-Anmual Meeting of Stackho'ders will be held at office, No. 5,
Cu's Bank. on the lst 'hursday in January.

Sirrad S. M. Co. will sell at anction, shares on which arrears may be due on Monday, Jauuary 5th, by Duncan \& Co

Norton G. \& S. M. Co.-An assessment of two dollars per share was levied Nov. 25, payable on or before Dec. 30 th , 1862, at office 522 Montgamery St.

Adriatic G. \& S. M. Co. will hold its annual Meeting of Stockhulders on Monday January 5th 1863, at No. 4, Amory Hall.

Willow Sprinas G. \& S. M. Co -The annual meeting of $^{\text {Will }}$ Stockh lders will be held at 224 Montgomery, on the 29 th of December, for election of officers.

Banner G. \& S. M. Co. has been duly organized. All claims or interests not presented for examination at office, 522 Montgomery St., on or before Lec. 31st, 1862, will be forever barred.

The fir-t annual meeting of the Stockholders of this Company will be held at their office, Dec. 24th, for the election of Trustees, elc.

Dios Padre G. \& S. M. Co.-An assessment of three dollars per thare was levied, Nov. 29th, payable on or before Jan. 1st, 1863, at office 502 Montgomery St.

Emamt G. \& S. M. Co-An assessment of twenty-five cents per share was levied, Nov., 2lst and is now due, and payable at office 326 Clay St.
Vibbard G.
Vibbard G. \& S. M. Oo.-An assessment of 25 cents per
share was levied, Nov. 21st, and is now due at office 326 Clay St.
Doyle G. \& S. M. Co.-An assessment of 25 cents per 326 Clay St.

Livingston G. \& S. M. Co.-An assessment of 25 cents
er share was levied. Nor. 21st, and is now due and ayable atoffice No. 326 Clayst.
lisac's G. \& S. M. Co-An assessment of 25 cents per
share was levied. Nov. 21 st, and is now due and payashare was levied, Nov. 21st, and is now due and payable at office No. 326 Clay St.
Kower G. \& S. M. Co.-An assessment of 25 ceuts per shar was levied, Nov. 21st, and is now payable at office 326 Clay St.
El Dorado G. \& S. M. Co.-An as zessment of one dollap per share was levied, Dec. 1st, and payable at office, on N. E. cor. of Ca!ifornia and Montgomery Sta., or to Snperintendent in Virginia City.
Iowa Mrning Co,-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Montgomery St. on, or before Jan. 3d, 1863.
Josephine Mining Co.-An assessment of two dollars per share was levied, Nov. 19th, and is now due and payable at office No. 21 Stephenson House.
Buraside S. M. Co.-An assessment of one dollar per share was levied, Nov. 17 th, payable within 30 days, at office 712 Montgomery St.
Calmonia G. \& S. M. Co.-An assessment of 20 cents per sh ire has been levied by urder of Trustees, and all Stockholders neglectirg to pay on or before Ilec. 22d, will have Stock sold to pay the same on that day,' in front of the Post Office, Gold Hill. Office 412 FrontSt.
Hawley Mining Co. Ansesment
Hawley Mising Co.-Au assessment of 50 cents per share was levied, Nov. 15th, payable at once, at office 204 Front St.
Ambrican Quicksilfer Mining Co.-An assessment of one dollar per share was levied, Dec. 16 th, payable at Company's Office, in Petaluma, within 30 days- At the expiration of which time delinquent Stock will be sold.
Napoleon Copper Mining Co.-The first annual meeting of this Company will be held at office N. E. corner of Sacramento and Montgomery Sis., on Monday, January 12th 1863 , at 8 P. M.
Madison G.\&S. M. Co.-The books of this Company are open for issuance and transfer of Stock, at 608 Merchant St.

An assessment of two dollers per share was levied on the Stock of this Company, Nov.13th, payable at ouce.
Burning Moscow S. M. Co.-An assessment of Two Dollars per share was levied, Nov. 25, for the purpose of defraying expenses of steam pump and machinery now being
erected to drain the mine. Prompt payment is requested at the Company's office, corner of Mon'gomery and Jackson Sts., to Jos. P. Nourse, Sec.
The regular quarterly meeting of this Company will be held at the Company's office, on Wednesday, Dec. 24 th 1862.

## WASHOE MINING NOTICES.

Poornan G. \& S. M. Co--An assessment of Five Dollars per share was levied, Nov. 9th, and another of Ten Dollars per share, Nov. 21, payable at once to the Secretay, R. J. Mi:chel.
Coledonia Tunnel and Mining Co.-An assessment of Thirty-two Dollars per share was levied, Dec. 8th, payable immediately to the Secrelary, Martiu White.
The Vhmany Rock Co., lying next west of the Virginia
Co claims have notified the Hazel Green, Tiagley and Brach
\& Paxton Companys that they are tresspaesing upon the Chimney Rock Co's ground.
La Crosse Mining Co.-An assessment of $\$ 125$ per share was levied, Dec. 8th, payable at office 73 C Street, Virginia City.
Hawk Exe Silver Mining Co.-An assessment of 25 eents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Ashland G. \& S. M. Co,-An assessment of fitty cents per share was levied, Dec. 10, payable at the office of M. J. Power, Sec., B. St.
Independent G. \& S. M. Co.-The annual meeting of this Company, for electing officers, will be held at Gal: na, on the first Monday in January.

The Sierra Nevada Silver Mining Co. advertise in the Territorial Enterprise, 1042 shares of stock for sale for nssessments, on Monday, Dec. 29th. Shareholders will do
well to look to their interests. well to look to their interests.
Union Company, Gold Hicl-An assessment of fifty cents per foot has been levier, payable at the rate of ten
cents per foot, Nov. 15,22,29; Dec 6 , and 13, at the Com cents per foot, Nov. 15, 22, 29 ; Dee 6, and 13, at the Company's office, Gold Hill.
Norman Silver Minino Co.-An assessment of One Dollar per share was levied, Nov. 19th, payable on or before Dec. 31st, to the Superintendent in Virginia City, or at the office, No. 40 , Montgomery Street, San Francisco.
Martin White Mining Company.- An assessment of ten oents per foot has been levied, payable to the Secretary, at effice on $C$ Street, Virginia City,
The Speeney Co., Gold Hill, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.
Moheqan Co., Cedar Hill.-An assessment of fifty cents
per foot was levied. Dec. 5 th; payable forthwith, to the Secretary at Virginia City.
Orisntal. G. \& S. M. Co.-The 3d asseesment of 15 cents per foot, was levied, Irec. 8th, und is payable at office, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTICES.

The Zenobla Lode Compasx, give notice that they claim a superior title to the Johnson Co., claiming the same ground, so far as said localities conffict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J. C. Dorsey. S. P. Dorsey and James Elder,

## MINLNG AND SCIENTIFIC PRESS.

THE ONLT MINING, MECHANICL AND SCIENTIFIC PAPER ON THIS CONTHNENT.

## THIRD YEAR: VOLUME VI-NETY SERIES I

A yew Polume of this extensively circulated paper commenced Sent. 11, 1882. It is intended that every number shall bo replete with information concerning Mining, sicientitc, Me chanical and Iudustrial pursuits, togethel
with severul origiual engraviugn, of vew ioventions, otc, prepared expressly for its columns.

## This paper

If Science, Arts that may be of ingrieulture and Commerce, and any general information or tospare no pains or to the reader : and it is the intention of the proprieor lo spare no pains or expeose in making it

The Mixing Interess!
Will find it of grrat walue, as it will contriin all the nows anpertaining to aclaped to taiat purpose, and of every thung generally that may be of service to the Miner.

## Whe Inventor I

ato notice, of ascertaining the progress of inventiou in this invention ountries, and also of receiving any information that in this and otbor ob obtaining his patent, the premrietor having had great experience as a ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each number will contan sev eral original engravings of new machines and inventions, together withe large amount of reading matter appertaining thereto. We are constantly recejving the best scientific jourals from all quarters, from which wo
shall continue to extract whatever may be of benefit or interest to our
To Chemists, Architects, Millwrights and Farmers l This journal will be invaluable. All new discoveries in Chemistry will be givell, and a large amount of information of great service to Arclitects and
Millwrights will be found in our columns. The Farmers and Planters will not be neglected, engravimss will be given of agricultural implements, and the farming interest generally will beamply discussed.


Ten Copies for Twelve Months, $\$ 30$.
Fifteen Copies for Twelve Months, $\$ 44$.
Twenty Copies for Twelvo Months, $\$ 56$.
For all clubs of Twenty and over, the yearly sul)scription is only $\$ 280$
Names can be sent in at diferent times and from Names cad be sent in at different times and from different
Specimen copies will be sent gratis to any part of the country.

EWER \& SMETHE, Publisherg,
Room 24, (formerly) D. S. Court Building, Corner of Washington and B

## MUSIC! MUSIC !! MUSIC!!!

A. K $\overline{O H} L E R$,

## Musical Instruments and Miusical Merchandise.

Sheet Music and Music Books. GENUINE ROMAN STRINGS, sc., \&c., \&c.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS.
RANK AS THE FIRST AND BEST In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KUHLER, Agent fur the Paciac Coast.

## Melodeons and Harmoniums,

## MASON \& HAMLIN


A. KOHLLRR, Agent.

UNDER THE PROVISIONE of What is Ehowh 3 the SLAntor Bill, it is prored dolliars
The undersigled will sell homestead lots within the limits of the city, and miles ncarer to the business ceutre than many of the lands covered by the Sharter Bill, and place tho party in immediate possession of the sume, withITLE is absolutely PERTECT, being a ipaíish Graut, fually confirmed and natented by the United States. Tho Shaffor Bill respects this title : the city
 Lhadow upon it. Whoever purchases one of theae lots whll buy a lot, not a
a
Oflice No. 19 Naglee"s Bulding corner of Montgomery and Merchantsts.
HAKVEY S. BROwF

# 讯tining and Scientific 和ess. 

W. B. EWER,

EDITOR.
MONDAY
DECEMBER 29, 1862.
The MINLNG AND SCLENTIFIC PREAS is published at the Federal Building, Room 24, corner of Battery and Washington streett San Franvertisements, Fifty Cents per line. A liberal discount made to quarterly advertisers.

Higravings, Electrotypes, etc.
Ws execute at this Office Engravings and Iilustrations on wood, stone, Wz execute at this Ofice Engravings and Inlustrations on wood, stone,
copper, steel, etc. Stenzorpyry and Enscrnopsinc, Designs of every des-eription-Buildugs, sketches of Towne, Machiuery, Stamp Dies, Sea
Plain or Colored Printing.

JOB WORK-executed with dispatch at the cberpest rates.
ATRONS will remember that when we execute engravings we wil
Patrons will remember that when we execute engravings we will insert
them free of charge in the Mning and Scmentuc Pres, thus giving the adthem free of charge in the Mining and Scientur Press, thus giving the ad-
vautage of a Wide Circilation throughout the Pacific Coast in the best Advertising Medium to be found mothe country.

## To Printers.

An Inreabst in one of the most floursihing and best paying Newspa. per Offices in the mountsins is offered for sale on easy terms. A rare op portunity is hereby presected toany printer desirous of extabliwhing himself in a geod business in one of the bealthiest, most thriving and delightfu! mountain towns in the state. For further information enquire at this office.

## THE AGE OF MACHLNERY.

We read of the "Heroic Age," of the "Golden Age," of the "Iron Age," of the "Dark Ages" and of the "Progressve Age." The latter term has been, not altogether without reason, applied to the present age ; but were we to select an epithet by which to characterise this age of ours, we should terin it the "Age of Machinert"-for such it is, in the fullest sense of tho term. The entire individual study of the present day is the adaptation of means to ends. Nothing is done directly, or by haud, which, by any human contrivance can be acconpplished by machinery. From the simplest operations in human industry, even to the most complex, some cunning, abbreviating process has been devised by the met chanical ingenuity of the present age. The Patent Office a Washington, within a few years, has become a perfect wilderness of labor saving contrivances, and displays to the astonished looker on, an aggregate of iuventive genius, which is absolutely bewildering.
Go where we will throughout the land ; notice whatever branch of industry we may, old modes of exertion are everywhere thrown aside, and the slow and feeble hand of the living antizan has given way before the speedier and tireless limbs of wood and iron which the cunning inventor has taught to work at his bidding. The shuttle has dropped from the hands of the drowsy weaver and fallen into the iron fingers that never tire, though they ply it many scores of times faster than it was wont to be moved. The farmer lays down the shovel and the hoe, the rake and the seythe, and steps aside for the multitudes of substitates now plyed by the power of steam or horses. The sallor furls his sail and drops his oar, while he bids his strong unweried servant with iron limbs and vaporing breath to bear him along the quiet river's bosom, or over the wildest ocean's swell. Even the horse is stripped of his harness and becomes laggard in his swiftest flight, as the swifter fire-horse, yoked in his stead, goes thundering along his iron way! The very lightnings of heaveu-God's grandest and most subtle agents-have been subdued, and brought to the aid of man, and taught by him to convey his thoughts from point to point, with a speed which not only equals but absolutely outstrips time in his most rapid flight! We have machines which, almost without the aid of human hands bore their way into huge mountains in search of hidden treasure or to make straight the otherwise devious ways of commerce ; again, they go down into the depths of the sea and dredge out its bottom, or attack the hitherto everlasting hills with a faith and force which causes them to remove at once to the sea and make thereof a smooth highway. We war with rude nature, and by our resistless energies come off always victorions.
Time was when commerce, with its white winged sails, ruled the world, and commercial position, alone gave power to nations. It was thus that Tyre, Carthage, Rome, Venice, and lastly England ruled the world by their cemmercial positions alone. Now all is changed. Tie Age of Machangry is tritempeant, and the genius of invention has -sought this western hemisphere for its imperial seat. The
wrooden walls which have hitherto been quite sufficient to protect the walks of commerce, and bid defience to a world in arms, are now as weak and feeble in comparisbn to modern enginery as the flapping sails which creshadow those walls in a calm, are to the almost resistless force of the gigantic machines which drive the huge steamers of the present day in their way across the deep, regardless alike of storm or calm. Wooden walls within the last year, have gone down forever before the iron clad ships, which the active genius of the American mechanic has brought to perfection as sudden and unexpectedly as the form of Hercules rose from the prolific brain of Jove. Thus it is that machinery now rules the world, whether in the arts of peace or war. The fate of nations will hereafter depend solely upon their attainments in practical science-in peace they must be able to contrive the most perfect machinery and apply it to the greatest variety of industrial parsuits-in war they most pos sess the means and knowledge 10 construct the moss formi dable engines of attack and resistence, and the heaviest calibre and longest range of guns.

## WHEELER'S AMALGAMATOR.

Upon the first page of to-day's issue will be found several finely executed engravings illustrat.ve of the new Gold and Silver Amalgamator recently invented by Mr. Wheeler, of this city. Mr. W., besides being a first class mechanic, has probably had more experience in the construction and running of quartz mills than any other person in California. He has here brought his practical knowledge to bear, nost successfully, in devising and constructing an apparatus for triturating gold and silver ores and amalgamating their met als. By an ingenious combination of certain well known principles, and the addition of several others that are new, and upon which he bases his patent, he has been able to introduce to the mining public a machine which needs only to be seen, by any practical miner, to be at once accepted as the ne plus uitirc of amalgamators.
The machine is already in successful operation in Washoe, at the Zephyr Flat Mill, upou Carson River, where it has been running for some months, side by side, with the most approved of other amalgamators in use, also with the most uniform superiority in point of saving efficiency, and of care and attention required in ruaving. One principle which is involved in this iuvention, and which is entirely new, is that the triturating and partial amalgation is effected in one machine, while the complete amalgamation and cleaning ap is confined to another, of entirely different construction. The first machine, only, is represented in the engraving which we give to-day, and may properly be called a "Triturator." The other machine, is called a "Separator," and will be illustrated as soon as the engraver can furnish us with the engravings. Twio or three of the "Tri-turator." are designed to go with one "Separators"
It is almost impossible, even with the accompaning engravings, to convey a very clear idea of the essential principles of the "Triturator." In order to be fully appreciated it must be seen. The model itself is sufficient to carry convic tion to every practical man, with regard to its utility and superiority. It is, however, in the combination of the two, and the new principles especially involved in the "Separalor" where the most important advantages of the invention are most readily discovered. Of this we cannot speak more fully until we are enabled to place the en gravings before our readers. Notwithstanding the complicated nature of the ma chine, nothing of the kind can be more simple in its construction or less liable to get out of order.
Money to Spare.-San Francisco has at this time a surplus of $\$ 300,000$ in her treasury, and the State half as much more. It has been suggested that the two amounts should be put together and invested in a monitor for the protection of this coast--trusting to Congress for its being refunded at some future time.
A. Heavy Rallroad Grade.-A railroad has been built in Nem Zealand fourteen miles in length, and rising in that distance 2,800 feet.
Buriron.-Almost nightly that huge wagon of Wells, Fargo \& Co. backs up to the express office, and discharges heaps of pure silver bricks, the product of the Washoe min-

## MINING NOTABILIA.

Our attention has been called to a bar of gold weighing $6 \mathrm{oz}, 8 \mathrm{pwt}$, taken from 3000 mb . of arsenical pyrites, treated at Deetken's Metallargical Works, near this city. We are assured that these pyrites, before being forwarded to Mr. Deetken were ground to an impalpable powder and subnitted to the usual anualgamating processes, all the gold being extracted which could be made to amalgamate with quicksilver. Mr. Deetken claims that the process employed at his works for the treatment of sulphurets, is far superior to any wet process. He is undoubtedly correct, and all mill owners, who are working rock containing a la ge amonat of sulphurets, will fiud it greatly to their advantage to save and forward them to Mr. D., who will work them for $\$ 20$ per ton. It is claimed that the yield by this process is from 30 to 50 per cent. higher than the usual processes of amalgamation. Mr. Deetken will set up at any mill, an apparatus for separating the sulphurets, for from $\$ 50$ to $\$ 100-$ no power or clean water being required to operate the same. The works iobmerly owned by Mr. D., at Grass Valley, in Nevada Co. are well known in that region, where they have established a good reputation. It is his intention that his new establishment, in this ctty, shall, if possible, reach a still higher standard.
A Valuable I Inscovery.-A rich and promising gold bearing lead of quartz was discovered last July, near Poverty Point, aboat two miles North of Placerville, by Mesers. Johu and Andrew Ellicott. The discoverers have organized Company for working the vein under the title of the New York Quartz Mining Co. The New El Dorado Gold Mining Co. have tuken up threp sets of claims, known as No.1,2 and 3, adjoining the discovery claim on both the north and south. The Companies are actively engaged in opening their mines and erecting mills. The mills will soon be ready to run. Several shafts bave been sunk upon different portions of the vein from 20 to 45 feet in depth, and El Dorado, No. 1 is running a tunnel. A large quantity of rock has already been raised, which is generally rich and well stocked with specimens. We examined a large quantity, last week, of very rich specimens which show much coarse gold. We trust the fortunate discoverers and their associates will find their "piles" in this new El Dorado.
Buchos.-The product of bullion from one hundred mills says the Virginia Union, is now cousiderably over a million of dollars per month, with the prospect of a rapid increase if things go on favorably. Several new mills are in process of building and will be finished inside of another month. A mong these may be mentioned the Gould \& Curry, and the large mill of the Daney Co . in addition equal to the production of half a million per month.
'Tee Ophir Company is running a tunnel through the length of their mine, 1400 feet, at a great depth from the surface. This work says the Virginia Union, when completed, sill no doubt demonstrate the inexhaustible wealth of the Ophir mine, and iucrease confidence in the Comstock lode. Already different companies have tapped that lode from the centre of Cedar Hill to the summit overlooking Gold Hill-a distance of one mile and a half. Throughout this entire distance its unquestionable richness was established.
Anoteer Silver Ledge.-The Quiney Unıon aays, Mr A. Robinson informs them that a ledge of silver rock has recently been diseovered near Eagle Gulch, in Plumas county, that prospects viery favorably.
The Grass Valley National states that some persons bave discovered a mine of the oxyde of maganese, which is very useful in the process of silver saving. It is worth eight cents an ounce.
Earthquake-Our citizens were pretty generally shaken out of their morning's nap, just before daylight on Tuesday last. Door bells were rung, plasteriug knocked down, etc., but no serions damage was done." The same shock was quite sensibly relt at San Jose.
Hoxaday Presents.-Messrs. Brauverman \& Levy advertise an extensive Stock of rich Holiday Presents, at their sales room, No. 621, Washington Street, in this city. Particular attention is called to their well assorted Stock of Jewelry, Silver Ware and Precious Stones.

## NEW BUSINESS ARRANGEMENT.

Mr. C. W. M. Swisu, having purchaced one half interest in the "Miniug and Scieatific P'ress," will bereafter be associated with us in the publication of the same. The editorial management will continue as heretufure. Mr. Smith will take charge of the business of the offee, and in that capacity, will call upon the mining and business portion of the city to obtaiu subscribers amolig sncts as are desirous of seeing a journal established in Sau Frrucisco, especially devoted to the great leading interest of the State, and to the general dissemination of practical knowledge among our people. Al ter s short stay in the city Mr. S. will visit the principal mining localities iu the State and neighborng Territury of Nevada, for the purpose of increasing the circulation and usefulness of the Parss. During his travels he will keep the readers of the Press apprised of the general condition and progress of the mining interest in such lucalities as he may visit. We bespeak for him a kiud and generous reception whersver he may go. either in the ci'y or ccuntry.
Perhaps it may not be inuppropriate, in this connection, to remind our citizens, whether directly engaged in mining or not, of the importance of establishing and sustaining at least one paper in the State of the character contemplated in the prospectus of the Mining and Scirntific Press. At the suggestion of quite a number of gentleman, anxious for the accomplishment of such a purpose, we have embarked in the enterprise, aud can assure the friends of the same, that the value and interest of the paper will be in exact accordance with the liberality of their patronage. The imaginar tion can scarcely comprenend the importance to which the legitimate mining interest of the Pacific coast may be car ried in the course of another decade. The mines of the Easteru Slope are even now beginning to furnish an impor tant portion of our monthly shipments of precious metals ; While the mineral developments on this side, other than gold, are already beginning to attract attention of European, as well as Eastern capitalists. The growth, in wealth and population, of San Francisco, will be limited only by the developments of our mines It is to be hoped then that her merchants, whether directly engaged in mining, or not, will yield a liberal support to a paper, whoge sole mission is, by the diffusion of practical information, and interchange of opinions and experience among miners, themselves, to aid in the proper and early development of this greas interest. It is furthermore important that a knowledge of the same should be placed before citizens, capitalis!s and working men abroad, to the end that our city and mines may be filled at an early dey, with those hardy sons of toil who will be quite ready to avail themselves of the opportunities and priviledges of our state, to escape from the tarmoils and miseries of Eastern and European communities. This they will do whenever these advantages are properly brought to their knowledge. Again we bespeak for our associate, a cordial and appreciative welcome, while he goes among our citizens and merchants, with the above objects in view.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to mainers and mechanies, which is contained in a volume of the Press, cannotbe bought from the shelves of any bookstore in the conntry for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than
six months; but inasmuch as we are anxious to introduce six months ; but inasmuch as we are anxious to introduce
the paper where it is not now known, we will, for the present, send the Press for three months even, on the receipt of one dollar, in coin or stamps. It is our belief that no one will wish to disconaue the paper after being a constant reader of it for even that short time.

## THE NEW CITY

The unusually high water of last winter afforded a most excellent opportunity for the selection of building sites along our various valley streams, Among the numerous embryo cities and towas thus laid out, we know of no other which present more local advantages than the new city of Collinsville, on the Sacramento.
A glance at the Map of Californis is all that is necessary to satisfy any refecting mind of the judicious selection of this site. It is never subject to overlow, as the wharf and warehouses were built at the highest flood last winter. The vast region of fine country around it is fast filling up, and if the un interrapted navigation from San Francisco to Sacramento increases as it has done for the last five years, there is nu reasou why Collinsvill should not become sn important City, it being a midway stopping place for the steamers between San Francisco and Sacramento. Already, at and around Collinsville, there is a large number of inhabitants. They have a Post Office, Store, large Warehouse, and a fine Wharf, 200 feet long by 200 feet wide, which cost upward of $\$ 10,000$.
The farming conntry in Solano Connty cannot be surpassed. Fine soil, pure water, a milder climate, both in summer and winter, than almost any other part of California., A city with such a situation, surrounded by so desirable a country, cannot but have an early importance. A ferry has been established between this place, Antioch and N. York, making the distance only 35 miles, by land, to San Francisco.
The Company have donated one of the finest pieces of land in their city for a college and school house, to be finished by the first of May next.
Full information with regard to the place mey be obtained by enquiring at the Office of the Collinsville Land Company, 318 California Street, either personally or by letter.

John Nugent and Archibald C. Peachy have gone East to attend to the celebrated New Almaden quicksilver mine case, now punding before the United States Snpreme Court on an appeal.

## Mining Stock Report.



The mining market for the past week has not been very active, owing chiefly to the occurreoce of the Holidays. The sales at the Mining Board will be noticed above.

## REMARKS.

Opbre-This stock which, the week before, very materially declined and opened on Monday last at $\$ 2,150$, adranced carly in the week to $\$ 2,350$ cash
or $\$ 2,400$ on 60 days. Bites and Williams quotes sales, the past week, of or $\$ 2,400$ on 60 days. Bites and Williams quotes sales, the past week, of
312 shares The higtoost figures were obtained under the impression that a new and rich strike had been made in the mine, just north of the Mexican ground. The report not being confirmed, the stock was quiet during the latter part of the week.
The total amount of dividends mado by this Company during the last seven months has reached $\$ 470,000$, or $\$ 33571$ per foot. Under the close and economical management in prospect for the coming year, and the large amount of valuable ground now open for work, in addition to the increased capacity of the mill, it is but fair to infor will be largely increased the coming year. The Gorm \& CORRY declared a dividend on the 23d instant, of \$24 to the
foot, payalite on the soth. Thia stock has been lightly dealt in, the past week, but lithe belag in tho merket, Bates and Willame quotes sales of
 20 staree at $\$ 2,800$ on 30 days , and $10 \mathrm{ut} 86,700$ cash. The following are the 1802, sa per Avaual Report of the Eecretary from which we collato

Cash ou band, Dec. 16, 1861,
Bulance of afkessnient No. 4
(7,915 72 11,632 00 Total Recelprs from all sources, from Doc. 16, 1861 to Dec. 1, 18628891,89596 EXPENDITURES.
For constructing Mill, purcbase of woodlhad, im .
provemonta, cattle, working ores, etco, cto.
Casb on haud Dec. 18, 1862,

## $\begin{array}{r}\$ 889,14006 \\ 11,60272 \\ \hline\end{array}$

8000,743
A large quantity of ore from this mine, generally of inforior quality, has been worked the past year at several custom mills, with the following result, Amount recelved for oren worked and sold
Workiug expences on same

> Net probta pany, over
$\$ 2828,94646$
334,187 66
\$449,807 89
The balance of liabilities of the Company, over available assets, Dec. 1 kt , 1862, were $\$ 0,110$ 51. From that date to Dec. 24 was suficiecat to pay or that debt and declare a dividend or $\$ 24$ per toot-ffeoceforth we may set down the Gould and Curry as a regular dividena pay ing mine.
Chollar is quotod ut the Board the past week at the uniform rate of sasb -in Baves and Willian's Circular, the following quolations are given :- 20 shares at $\$ 360-12$ at $\$ 365-20$ nt $\$ 370$. The decision of the Supreme Court in the Choltar vs. Potosi is expected this week.
Potosi has steadily advanced the past week under the expectation of a comprorise. It has gone steadity up from $\$ 70$ to $\$ 100$, at which lust quotation Sundbora \& Co. quote a sale of 30 shares.
Sierra Nevada has adrancod $\$ 20$ on last weeks quotations, and reats at \$78. This advauce bas been caused by a report that very rich ore had been struck in the toine. Should this report be confrmed further adrancen may be looked for this week.

## Coso Stocky.

The Josephine had bidders, the past w3ok, at the Stock Bourd at from $\$ 15$ $\$ 15 \%$. -Hudders asking $\$ 20$ to $\$ 25$.
Coso- 820 asked.
Willow Springa-heldd at $\$ 45$.

## Mexican Mines.

St. Nicholas Silver Mining Co. is quoted" by Sanborn's Circular at $\$ 100$. Mina Prieta finds nu recent buyers, but is beld at $\$ 110$.
Dius Padre is quoted at from 30 to 33 dollare.

## WASKOE STOCK REPORTG

[Compiled from the Naily Territorial Enterprise.]
The Territorial Euterprise says that the pasage of the Incorporation Bill, created, at first, somethiog of a flutter in the Stuck Market, at Vir. ginia City; but as a large class of permaneut citizens, there, are satisfied that the Bill will eveutually work to the advautage of the mineral developmeat of the Territory, operators generahy look with complaicence upon any immediate disadvanhage, fully sutssied that money invosted in mines there wili be as amply protected under the Teritorial laws, as under the laws of Califotnia, The Enterprise intimates that the mines will be more rapidly develuped, more satisfactorily developed, more intelligently managed under the eye of a resident board of Trustees, than they ever could be under the past system of abseuteo managers-
We trust the speculations of the Enterprise may be correct, but we apprebend that time will ahow that the Nevadans have made an impolitic move, Sam Franciscaus will nol go to Wastone to live for the gake of inverting their money in the silver mines, be they ever so rich.
Accounts from the coal mines uebr Palmyra are of a more favorable and reliable charucter than at any time during the progress of their development. The developmenta which are now being made are such as tend to show in a more pructical manuer the real merits of the mides- The
Pioueer Company have taken upward of fifty tons of coal from their claims -An amount sufficient to thoroughly test the quality of the article-which has been used at severa! molls at Silver City, and is found 10 serve well for fuel, and is aftorded at less expeuse than wood can bo. This company is said to have prospected a sufficient amount of their ground to prove beyond a doubt the permanency of the miue. The ledge is nomo three feet in width, dipping at an atgle of forty-five degrees, rffording a better quality of coal the dueper they deaceud.
There appears to be less activity in stocks than usual, without a basis on which to calculate transactions. There will not, probably, be a general derand for stocka before Spring. Sales made during the Winter will be at rates equaily low as at prespnt.
Nevada, on the 16 th was offered at- $\$ 750$. A small transaction is reported at thene figures.
Inquiry was made for North American, but at figures below selling prices. Mount Davidson is offered at $\$ 6$-itha bighest bld, $\$ 450$.
Codar Hill Tunnel stock is offered at $\$ 8$. I is baleableat $\$ 5$.
Wyoming is quiet. Prospect for a ledge in these claims are less flatter. ing than on first discovery. The company continue to drive a cut in the direction of the supposed ledge, and will soon reach the point wherethe ruck was found on the surface.
The Savage (south continuation of the Gould \& Curry), a claim scarcely knowu in the San Francisco market, has suddenly leaped into notice and high favor, and fitiy fect wore sold on the 17 th uit. at $\$ 60$ por fcot-


GIFTS, DONATIONS AND SUBSCRIPTIONS
To the work entitled "The Metalic and Agricultural "Wealth of the Pactfic States." The publisher desires to thank the several gentlemen whose names are hereto ap pended, for their mrguanimity and aid in behalf of this important work.
Samuel Branaan, Esq., Citizen.
John Parrot, Esq., Banker.
Hyam Joseph, Esq., Citizen.
Ira P. Rankin, Esq., Collector of Customs.
S. H. Parker, Esq., California Postal Agent
S. C. Bradshaw, Esqq... Pacific Metallargical Works.

David Henriques, of the Board of Stock Brokers.
Rev. Dr. E. Cohn,
Rev. Dr. H. M. Bien.
J. M. Mugarietta, Mexican Consul.
H. Meyers, Citizen.

Henry M. Hale, City and County Auditor.
Dr. J. C. Tucker, of Steamer Moses Taylor
Dr. J. W. Van Zandt.
James Hitchens, Sup't of Willow Spring Mine.
G. F. Deetken, Sup't Metallurgical Works.
E. T'orres, Ex-Mexican Minister.
M. Lebatard,

Merchant. San Francisco.
Greenberg \& Man del,
A. B. Stanford \& Co.,
J. Seligman \& Co-
B. Hamburger,

Levy Strauss,
M. \& J. Steinhart,
L. King;
S. Rosenblatt
S. Rosenblatt,

Herman Gerstung,
Henry Newstadter
Uhlfelder \& Cahn,
Wm. Meyer \& Co.
Hecht Bro. \& Co.
H. Cohn \& Co.,

Scholle Bro's
I. Bluxome, Jr.

Lazard Freres,
Chas A. Crane, Esq.
E. H. Washburn, Tax Collector, San Francisco,

Jas W. Bingham, Clerk Buard Supervisors, S. F.
C. Bartlett, Clerk Brobate Court, S. F.
M. C. Blake, County Judge.

Rev. Thos Starr King,
Dr. L. C. Lane, M. A. Prof. Pac. University.
John Levy of Braverman \& Levy, Importers.
Dr. J. B. Beers, Dentist,
William Fell, Esq., of Nevada Territory,
H. F. Teschemaker Esq., Mayor, of San Francisco.

Gen. R. M. Drum, Insp. Dep. of Pacific.
R. B. Woodward, Proprietor of What Cheer House,

Dr. S. W. Kellogg, of Kellogg, Hewston \& Co.
A. H. Housion, Contractor,

Alsop \& Oo. Bankers,
St Losky, Levy \& Co., Tobacconists,
Macondry \& Co, Commission Merchants,
Thos N. Cazneau, Com. of Emigration,
H. B. Platt of Platt's Music Hall,

John J. Hucks, Manu acturerc,
Thos Baugh, Prop. Merchant's Exchange.
E. Dupres. Broker, San Francisco,

William Schmolz, Coiner, U. S. B. Mint,
Robert J. Stevens, Supt. U. S. Branch Mint,
Conrad Weigand, Assayer
Henry Baker. Cashier
W. B. Goold, Weigh Clerk,

Ogden Hoffman, U. S. Distriet Judge,
Wm. H. Sharp, U. S. District Attorney,
Wm, H, Chevers, " Clerk,
Harvey S. Brown, Attorney and Counsellor.
F. A. Fabens, Esq. Altornty.
T. W. Park, Esq.

Byrue \& Freeion, Attorneys \& Counsellors,
Barvey S. Brown,
Gregary Yale,
P. W. Shepheard, Ass; Dist. Att'y.

I'. Dame Pres S. F. and S. J. R. Road Comp.
W. Hayes of Stanley \& H.
A. Kobler

John E. Kincaid Contr.,
W. W.' Donn Machinist
W. L. Booker H. B. M. Consul

Ant. Forrest H. I. M. V. Consul of France
H. Behr Dr. Consul Saxe Anhalt

Steinhert Bro.
Greeuhood \& Newbauer
E. L. Goldstein
S. W. Moore

H- W. Wadsworth
W. B. Cooke

Lent Sherwood \& Co.
F. W. Bayerque
F. W. Bayerque
And. J. Moulter

Dr. Isaac Rowell Prof. Ohem. etc., P. M. Univ'y

We would call the attention of our readers to the Stock Report which we give from week to week in the columns of the Press. This report is very full and carefully made up from the most authentic sources, embracing all attainable transactions both in this city and in Washoo. Oar report, for this city, embraces a full statement of the sales at the Stock Board-each day's operations being presented in a tabular form. We also re-produce the substance of the several Mining Circulars issued in this city. In order to give each weeks's transactions, full and complete, we have changed our publication day from Saturday to Monday. We ibtend to make each number of the Press a full epitome of the mining intelligence of the previous week, and add thereto such matters of general interest and information as shall be thought useful and advantageous to the miner, the mechanic and, in short, to every seeker after useful and practical knowledge.

The Great Work by Julius Silversmith.-'The publish er desires to thank the following journals and periodicats that have made kind mention and said a word of encourage$m$ ent for his mission and his gigantic qudertaking. The journals alluded to are the Daily Alla Ciliformia, Herald and Mirror, Morning Call, San Francisco Abend Post, Mining and Scientific Press, Weezly Gleaner, San Mateo Gazelte, Solano County Herald, Dutch Flat Enquirer, Washoe Times, and Sacramentu Dispatch.
Sonething New.-A room has been set apart in the Occidental Hotel, of this city, as a branch telegraph office. the wires from which connect with the State telegraph office. several blocks distant. This arrangement has been devised for the convenience of the visitor's and occupants of the house, who may thus transfer their messages to any part of the Union without leaving the Hotel

## Important Publicaiton.

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Metalic and Agricultural Wealth of the Pacific States." The editor of this work has recently disposed of the "Afining and Scientific Press," with the view of devoting his entire attention to the publication of the work; to this end be is making arrangementsfor an early r 'sit to the Atlantic States and Europe. The work if carried out accordiag to the prospectus, will be one of the most valuadle publications yet presented to the public, and will prove of incalculable bene fit to California and the Pacific Coast generally, in bringing the immense mineral wealth of this region more prominently before the Capitalists of Europe. The object is a laudable one and ought to be enconraged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the subjects of which he treats. He desires but little aid and that we trust he will readily obtain. The following is the frospectus:

 the fullowing plan and pronosition for the purrose of bringing huther from
Encludd, Frauce and Germany the workiup clusces, mechanics, artizans, mi

 thiny populatel stares and erritortes, thereby reductug labor, the eatab
lishing of fatorie, the occpation of the millions of acrea of arable laod
now ly ing dermant, and to work nur mines. The benefite accraing to our now ly mg dormant, and to work our mines. The benefits accroing to ous
Gorc. nment -10 matine conscyances- the methant- the manufacturer, the niniog cunpanines and profesional commumty, cinnot but be beneficial,
providel the facilities are offered in such emigrants, and accordmg to the provided the facilities are oflered In sucld emigrants, and according to the
tenor of our laws governing such. For these purposes the subscriber de-
sives to seek only the necessary or pecuniary and to tike hum ucross the Pa sires to seek only the hecessary or pecuniary and to take hum ucross the Pa.
cific and Atantic, so that he may be enabled to lay before the people of Eu-
rope a work whicl he has cumpiled from authentic rope a whrk whict he has compiled from autbentic ources, comprising the the mineral wealth of the Pacific thates, incluting partly Mcxico, Lowes
Catifuraia, British Columbia, etc., together with a synopsif of the climatology, agricutture, arts aud manufactures, with interesting statikies of our
imports expors, and pupulation. Also, the organsc acts of our State, the
ond local and geveral laws governing mining, the Preemptiou Act, and kindred
subjects pe taniug to the Pacific States. Tbe au hor resirving for himsel subjects pel taniug to the Preific states. The au hor rescrving for himself
the rigbt of translation of this work (which ban cost bim three years of his the rigbt of translation of this work (which bas cost him three ye
time to collect aud compile) in the GPrman and French langages.
He contemplates malking the tour to the Allantic States and Europe in
February or March, 1863 , and will equip linnself with the mineral materi als, fossil remains, etc., and illustrate them by diagrams and discourse throughout the Atlantic States ani Europe.
Such a work which your petitioner has in view cannot be published in this State without an extraordinary outlay, nor bave we the materinls, ar
tists or skill in copperplate or wood engraving. The work will compris from 400 to 500 prges , to be handsnmely illusirated with colored phates, maps, etc., quarto form. The subecriber will add thereto a complete lis
of all the assuciations and companies, especially mining companies. of all the associations and companies, especially minng companies. He goes to Eurepe for the purpose of seeing all the manufacturing pia-
ces, toachines and uteusils ; also to the leading mining districts and metal ces, machines and uteusils; also to the leading mining districts and metal
lurgical establishments, in acquire from the best sources there the best mode of trenting our rich minerals, and lay thtse several important feat
moder ures before nur penple through the Mining nad Scientific Press, and the
worls he hereby offers. But the most important subject in his mission worls he hereby offers. But the most important sabject in his mission is
the inducements he wall ofer to Europeabs of nur immensely rich minin the inducements he waln ofer to Europeabs of nur immensely rich mining
fields and agricnltural lands, together with the great advantages offered by The subsoriber, therefore, calls uphn tbe clizens in the Pacific states who
The have the interests of our new Etates nearest their heart, to aid bim in this graud but laudable undertaking with means. Each fubscriber will be
furnished with a copy of this work, which is designed to te use furnished with a copy of this work, which is desigued to be useful to the
tounting bouse, to the professional man ond miner. The nuthor desires to
state that whatever aid or subscription he may be furnished with by the people of this state he will refund atter the publication of the work, or leave the amount to be taken out iu books.
Respectrully submitted,

[^1]RECENT Patents-Granted to California Inven Tors thro
Solicitor

Herman Camp,-Patent for Quartz Crusher and Amalga-
W. H. Richardson-Patent granted for Washing Ma-
E. E. Matteson, Devada: Hydoaulic Derrick. This invention has been illustrated in this journal, and has obained great celebrity ihroughout the State.
Elander Heath, San Francisco, Spiral Spice and Sage Mill. See "Mining and Scientific Press," June 9th, 1962 , Vol. V., No. XIII.
G. F. Deetken, formerly of Nevada: Apparatus for separaling Gold from Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully Worked sulphurets for a number of years in Nevada county, professes to bave obtained greater results than others engaged in the same occupation. Mr. D. has recently establish ed himself 10 this County, on the San Brino Road, near the Islais Creek, where he has erected chemical and metallurgical works.

Routes and Fares from San Francisco to Forelgn and
Pacific Mail Steamship Company-Steamers leave for New York via Panama, on the 1st, 11th and 21st of each month. 1st cabin, $\$ 250$; 2d cabin, $\$ 200$; 3d cabin or steerage, $\$ 100$.
Nicarngua Sieamship line, Ross, Dempster \& Co., agents. -Steamers leave for New York vio isthmus of Nicaragua, on the 21st October, and semi-monthly thereafter. Price of fare not yet stated.

To Portland, Victoria, \&ce., \$60. Crescent City, Trinidad, Sc., $\$ 20 \$ 30$. San Diego, Monterey, and Los Angeles, ${ }^{\$} 20$ to $\$ 30$. Sandwich Islauds, per sailing vessels, $\$ 100$ to $\$ 150$. Australia, sailing vessels, 1st class, $\$ 250$ to $\$ 300$, China and Japan, sailing vessels, lst class, $\$ 200$ to $\$ 250$. Mexico $\$ 30$ to $\$ 50$.
Califcriaia Steam Navigation Company dispatch steanls daily to-Sacramento, $\$ 5$; Stockton, $\$ 4$; Peta'uma, $\$ 3$. Overland Mrail Company - Stages leave daily for St. Louis via Sult Lake ; fare, $\$ 200$.

## THE EYES! THE FYES!! THE EYES!!!

DR. E. H. PARDEE,
Oculist and Aurist to the San Francisco Deaf, Dumb and Blind Asylum.

After a protracted blindness of more than five years. Dr. PARDEE has made bimself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practicing with a success that cannot be surpassed in the United States ; and as proof of this he substantiates by many cases now in California that have been cured by hint, after having exhausted the skill of the eninent, physicians and oculists of New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there las been more bliudness from bad and improper treatment than from disease itselt-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tenious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what had been formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone;"
I was bled and blistered, then cupped two of three times a week-had a blue pill prescribed for me at night, and Ealts in the morning-was ordered in a dark room-to keep my eyes tinhtly bandaged--to avoid the open air and exercise," with fifty other inconsistencies, the agoregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but baro them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and following theories the most erroneous, and destructive to the eye. How mach more rational and consis ent to consultan experienced Oculist, who thorougbly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patierts under his daily supervisjon, and, with bui very few cases, they have all been treated by other physicians hefore applying to bim-and all to no benefit. Those wio are doubtful are permitted to call at Dr. Pardee's office and confer with the many patients who couvene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assoriment of Artificial Eyes on this coast, inserted, having all the movements of the real eye, and that they lo k so life-like that no one can tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts". or removal of the Lens by absorption or extraction;-" Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&c.
OFFICE:-Clay street, above the Plaza-opposite Plaza Hotel—old Ňo. 217, up stairs. augl4.

PACIFIC MAIL STEAMSHIP COMPANY＇S hne to PaNa3a


FOR PANAMA，
The following siteamstupn will bu disputetued in the month of December 180：

Will teave Fulsom struct Wharf，with Passengers aud Treasure，for Punama at o oclack，a．M．，Pexctualsy， And collect，vis Parama Rallroad，at Aspluwall，whth steamshipa for N．York Wor frelyth or passago，apply to

A．B．FORBES，Agent．
je4
Corner of Sacramento and Lelliestorlf sta．

## OPPOSITION

People＇s Line to New York．
ROU＇IE CHANGED FROM NICARAGUA TO Is＇IIMUS OF PANAMA．
Throght in Twenty nay dill
The fast and favorite Double Engine Steamship
HERMANN，3，000 TONS，
E HOWE
Commander．

> P A A , A M A $A$,
> Punctually at 4 o'eluek 1 P. M., of

ATURDAY，－－．．－－－DECEMBER 20．1862r
Connecting at Aspinwall by the Panama Railroad，

##  <br> AMERICA，

2，000 Tons．
JEFF．MAURY，Commander．
Tho America has proved herself the awiftest Stcamshipafloat，and in com－

 obetructinns whirla are snid to have．been ihrown in the way of pass
by the Nicaragua Governmem，cunot pessibly occur on this route．

THE PEOPLE＇S LINE
Has been estalishlat to meet the universul demand for an

## OPPOSITION，

And overy Californian fhould give it a preference for the public go
well as his own private advantage，which will be securad by

## Reduced Fare，Good Accommodations，and Quick Trips．

## This line is intended to be a permanency，and is got put on for the purpos of being bought or driven off．speed，sufily and the utmest comfort of pas

 sengers are the nanit oljects．To secure these no merchandise freight（oth．er that apeele）will be tation．The MOSES TAYLUR is built with Water－ Tight Compartments，and is unegualled for safety as well as apeed．



## REMOVAL．

OFFICE OF THE PACIFIC MEXALLURGICAE WORES North Beach，we are uow enabled to reduce from 10 to 15 tous of Silver or Gold rock per day．
Gold and Sivar or
reduced or purchared．
COPPER OBlB－High
and Sulphuret Assayers＇，or Silversmiths＇sweepings
myso
market rates adranced in cash，for shipments．
S．C．BRADSHAW，Ageut，
318 California street，noar Sansome，up stuirs．

## LABOR－SAVING

Rock Drilling Machines．
To meniene ramiroad contractors，TURvpike and quarry，


HAND，HORSE，AND
STEAM－POWER MACHINES．
The \＃land Machines are expressly adapted for working in Tunnels，Galle
 chine capable of drilling a four to six tuch diameter hole in granite four fee deep，and in bard limestone，six feet per hour－ihe rapidity of the worls
being limited only by the durability of the ateel dill． Sutsfuctory reforeuce will be given as to the practical working of the machiue，and its entire auccess iu roducing the cost of drilliug holes to one
tenth of the former expense，and on a rock excavation of any extent，from fifty to seventy－five per cent．ou the entire work．Respousible parties who have rock excavations to make in any part of the State，the subscriber will undertake and guarantee to perform the work required，at a saving of at least twealy－five per cent．over any other process．WM．W．DUNN，
Address orders to
Fremont atreet，bet．Market and Wission．San frincisco
 C．W．THOMAS，Plaining Mill，California street，fucing the Mission R．R
m16 W Mil \＆Co．，Importers of Hrvaua Cigars，Tubaceo

## A．ROMAN \＆CO．

wholesale and retarl
BOOK ESTABLISHMENT．
417 and 410 Montgomery street， SAN FRANCISCO．
－22．Ordera respectfully solicited and pronaptly attender to．
A Treatiso on Netallurgy，Comprislug Minug atad Gencral and Particular
Mucullurgicul Operntivus，Etc．Ete．By Fredurick Overman Mucullurgicul Operutivus，Etc．Eito．By Fredurick Overman．
A Manual of Metallurgy，or A Prsctical Treatiso on the Chenistry of Motale． Hanual of Betaliurgy，more particularly of the precious metols；but includ
ing such others as ure＂mployed in dental practice．
Records of Mining and Motaliurgy，or Facts and Memuranda for the Uso of
the Mine Agant and Smeltur．By Jauce Pbillips and Juhn Darliugton． the Mine Agmen and riggot on the Chemsatry and Minhg of Cupper． Practient Miueral Abraying and Miniug
Gold Mining and Arsaylog；by Phips．
Miners＇＇ompanion and tiuide，compiled by Silversmith．
Asmayers＇Guide；or Practical directious to Assnyers，Miners and Smelters， Practical Ansuying，by Miehell．
Practheal Ansuy ing，by Hichell．
ityor Ures nad Stlver Blines，by Pro．Blake．
Ure＇s Dettonary of Arts，Maduactures and Mines．
Weisbach＇s Afechunich of Jfichinery and Eagineering．
Nevillo＇s Hydraulic Formula Tabtes．
Fresenius＇Chemical Analysks．
Together with mauy other works in this \＆similar line
（23）Books imported to order on short nutica，－Ga

## A．ROMAN \＆CO．， <br> $417 \& 419$ Moutromery Street．

Gird＇s BUDDING KNIFE
THE ATTENTION OF FARMERS，HURTICCLLTURISTS AND CUTLERS，OR
1 manufacturers of Horliculturni Itoplements，are reterred to the abovo iavention．For description add engraving ace Minmag and scientipic Presa So．24，vol．v．
State，Turritory aud worksbop rights for sale at reasonable prices．
Address，
sepl－3m
J．SLLVERSMITH，（Agent for Patentee，
San Francisco．

## 3ur Bearftung für Eヒrfinter．

Erfinber，meldue nidat mit ber englijdjen Spradie befant fino，tïnnen igre Mritheilungen in ber beutidien Sprade madien
Sifzent von Erfinbungen mit furgen，Deutlidg geifuriebenen Befdreibungen beliebe man zu $^{4}$ abdreffiren an．

Jol．SILVERSMITH，Federal Building，Room 23.

## RASCHE \＆SONS，

131．Montgomery strect．，bet．Bush und Sutter，
Wholegale and retail dealers In
PIANOS，SHEET MUSIC
tralian strings
INSTRUMENTS OF ALL KINDS，\＆ic．，de．
Sole agents for the celebruted manufucturers，
A．A．GALE \＆CO．，New York；
T．GILBEkT，Boston，
C. MEYER, Philadelphia.

Whose Pianos they have always on hand，tor sale and to rent．
planos for rent．
New Music received by every steamer．Nero Music pub－ lished．Music assurted and bound in the best style．A lib－ eral discount made to the trade and professors of music．

## WRIGHTIS PICKS．



OHN WRIGHT，of Sacramento，has establasned himaelf in San Francisco
lur the manufacture of every description of 1 ICLS＇s，of the best material lur the manufacture of every description of 1 ICKS，of the best material，
at reduced prices．P＇ck Eyes of the lest iron furnished in any quantity，ai at reduced prices．Plak Eyzs of the best iron furnished in any quallity，at
low rates Urders from the country promptly attended to．N．B．－None genuine unless stamped with my namio．WRIGET， 511 Market street，
JOHN WR 1020 Opposite Battery，San Fraccisco．

TURNER，MARSH \＆USGOOD，Successors to C．O．Turner \＆Co．，importers
of Wines and Liquors，S．\％．cor．Frout and Eacramento sts，ml
D．J．B．BEERS－Dentist， 617 Clay street．All operations on the teeth
performed in the most skillful and approved manner．
apl 6
K ELLY \＆Wane，Importers und Dealers in Paints，Oils，Turpentine，Etc
mat 105 \＆ 107 Californa Bire日t，Bet．Devis and Front．

Dr．Van Zandt，
Consulting Physician and Surgeon， OFFICE：
Corner of Washingtou and Sansome Streeta．
The Great Success of this Century，as an Aid to Practi－ cal Medicine．

The Mystetious Problem of Material Nature，Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases．

THAT THIS PRENCEPLE，successfully appliod to diseased satates Iy of the systein，fat topove the greal sought for necerssity，long wathing derangenums of the humau body it is a part nf the great principle of vi－
tally knowr as oervour iulluence aud necessurily must huve much to do io obviating diseased actiou．
In its praise ；for it in mich Cannot Be said librium of the ELECRILE principle；and should thin secret and biddus equi－
poise of health be broken or lowerod－should the body be negatively eloc－ poise of healith be broken or lowerod－should the body be negatively cloc－
trified when it should be postively charged－is not the current broken，and trified whed it should be positively charged－is dot the current broken，and
is there nut a wiat of forces going on in our systemi This neds correcting
and tu order that the tiesues of the body should be suscoptible to romedia agents we must first restore aud

Awaken the Magnetic Life Withna Us，
Tho spinal and sympathetic nerve hystems．Bulleviug as I do most firmly in this great magnotic or electrical inten－ity of the earth，with its induunce
upon our bodies in health nad disease，I am led to take auvantago of the prese，through which to awaken atteation to the subject，that good may come to all．

No Compromise with Disease。
Give the body strength，and unture will relieve herself．Purify the life bloon，reuder the stomach，liver，heart，kidney and all the patural func－ the nervous，the dispirited，the melancholic，the dyspectic and the invalid revivo under its benigu ufiuence．

To the Ladies of California．
Dr．Van Zandt＇s succers with complaints of women，both in family and Office practice，is owing to his correct views of tho origin of all their mal－ upon humas ille－but is proving timelf the ouly member of the legitimate profession in California who is really successful in removing those ills which cately nituned pervinee of the sex．His high appreciation of their delf life，renders him doubly able to assuage those silent complainiugs which they bear so patiently and so long．No social disquietude aleed longer af－ flict our home circles；for he can arouse the atricken ouergies；roatore the
wonted tomicity of the body；a waken the melaveloite and despondings ；ar－ Wonted tonility of the body；a waken the melancloitc and despondings；ar－
rest chose draius which cause so much anxiety ；cure those grotean mala－ dies which have so long
Bafficd the Skill of Physiciang．
Develop appetite，lifo and animation，dispel narvous headache，sinking at end litelessness，hectic cough，aleeplesshens，unpleasint dreams aud that general depression of life＇s powers，which，go to reuder her life a misery and death a boon．Dr．Van Zandt，with hii new method of exciting the Electro－Gaivanle current，tngether with his romedial measures which are
adupted to the necessities of Calicoruia，will assure you of a complete and adupled to tne necessitues of califoruia，will assure you of a complete and
radical recovery of all bodily and mental infirmities，and will restore you to usefulness，and spare you a blessing to your family and to society． All the World Over
wherever disease exists，whether epecial to tho soil and climato or com－ mon to all regions－epidomic or casual，acute or chronic，contagious or non－ $u m$ ，especially in California，as it is to give fuod to the starving．This state ment is based upon a series of facts extcnding through many years，and
verefied by tundreds of patients：so that no principle of science，no rule of exporience，no result of any well known cause，resse npon more sure and uussaalable frundations，than those which underlie the world－wide repata－
tion of Electricity for the cure of all nervous states of the body faulty di－ gestion，mental and plyaical debility or prostration，coughs，asthma，wan－ dering pains of a rbeumatic，gouty or mercurial charactor，and all forms of
discase，the result of scrofula or canhectichabit of body， None Need Despair of Relief．
If you have ulcers which will not heal－pains that cannot be removed－
melancloly which you cannot shate off－lass of powar which you cannot re－ gajn－degression of spirits which weigh you domen－wakefulaces that knows no slecping－business that languishes for want of energy－a void which no society can fill－suspicion which no assurance can allay－Go to Dr．Van Zaudt，for bis great success，and the safety with which he admfuisters his
new me thod of Electrical excitation，together with his remedies，which are new me thod of Electrical excitation，together with his remedies，which are
adapted to the requirements of climate and constitution，will assure you a radical removal of all bodily and meutal inermities，within the scope of scienco and man to remove

## The Eye and Ear Diseases．

It must not be forgotten by the eye and ear sufferers that Dr．Van zand han en conse affictions an ospecial study，and that ho is the only Sur－ many of the cyeand ear troubles are purcly dernaged nervous actions，Very are cured by his electro－galvanic battery－an mausoris，squinting act，lioating specks before vision，twitching of the eyelids，luervoua deafness， roaring and buzing noises in the ears，gildiness，
ceslully done on those delicate orgass of semae．

Ofice－Corner of Washiugton and Sansome strocts．
nov20－3m
FREDERICK KESMODEL，

## Cutler and Surgical Instrument Miaker

 sif Kearny street．Between Jucksou and Washhington streets，

## San francisco

$\mathrm{R}^{\text {ECEIVED } n \text { diploma at the Fair of the Mechanice＇Institute，September，}}$ The ant anonion of sacramento in 1861 for California made cutlery． terested，is called to lus new method of fiting and acdapting Trusses to the different cases．It is a well known fact that there has as yet been no systere of fitivg Trusses．There are many dilferent styles which bave proven good in many cases，but they are all uncortain and canuot be $r$ lied ou，und in
severo cases are altogether useless．The following are some of the advan－ severe cases are altogether useless．The following are some of the advan－
tages I claim for these Trusses a aove any and all otluers：First－The Yad is
 Hoviog a correct model，it enables me to mate the Pad of any desirable
material，such as horn，ivory，etc．Third－The Pad is so adjusted to the spring that no movement of the body will move or displace it．There ar aps ts

50 lbs. Marine and Fire-Proof Paint, M WFicturen by the pacific metalu irgical Trum Wrooks in this city tor Hullin and Decks or Pesselis,

 cheaper than any other paint.

DIRECTIONS :
For Decks of Shps, use two parte Mineral Paint, one
保 part White Lead, mixwith Linseed Oil.
For Bottoms of Vessels, use one part For Bottoms of Vessels, use one bart ground sulphur it hot. For sale by allSbip Chandlers and Tradesmen, in boze
of 50 liss. each, or by the Pacific Metallurgical Works.

25 POUNOS FIRE-PROOF PALNT.
When used on Roofs, Buildings, or Fencen, it is equal to covering them with a coat of Stone, being perfectly Fire Proof, and coastiog less than any paint. DIRECTIONS:
HOUSE:-Mix three parts Mineral Paint Wlth one part
White lead, thin with Linsed oil: if a lighter color is Wanted, mix less paint, more lad.
RUuF:-Five parta of Mineral Paint, one part white ROUF:-Five parts of Miueral Paint, one part white
Lead; mix with Linseed oil. Put it thick on a tin Roof as one coat when properly appliedwill last three years.
G. T. Forqus, Superintendent. 318 Cale Tornian sto, Snm Frunclsco.

## Attention! Attention!

A TRACT OF LAND, EMBRACING AN AREA OF 400 Acres has recently been surveyed and plotted out termsas any ever offired ly the various Homestead As-
sociations in our city. The tract is known as the "UnF versity Mound Survey," and derives sits name from the fact that the Directors of the University College have
selected a site of about twenty acres in the ceutre of the selected a site of about tweoty acres in the centre of the
fract for their College Building and Park- This property is more beautiful than any other ever offered in this market, and its location is puch that it must in the astural progress of improvement soon be in great demand
for places of residence. That this property will inerease for places n[ residence. That this property will increase Iovestments in Real Estate, it is well known, have paid as largely as any other, and insurance against riak
of depreciation in vaiue is secured by the sure and rapof deprecration in vaiue is se
id increase of our population.
Invest in Real Es gite, and Invest in Real Es ate, and you will ind it more profita-
ble than investing in wild-cat mining stock, or loaniug ble than investing in wild-cat mining stock, or loaniug money that may be prid in depreciated curreucy.
The prices for lots in the above tract wibl remanio unj-
form until after the holidays-that is, without interest. form until after the holidays-
Sho title to the land in perfect. For further particulars apply to HARVET S. BROWN, Lithographic Maps can be seou and had at the abo named office. no 136 mo

## V. SQUARZA'S

Punch Factory.
 and similar in this Stuctions, formanufactured by him. Wiquere may mention that Mr. Squarza is au fait in the chemico-
distithing science, hence the celebrity of his articles. He has two establishments for the sale of his famous Punch Whe on Leddesdorff. the other on Montgomery streetWhich are coustantly thronged with our bon vivaots.
The following is a list of his hiquors all of which we less beverages in this city, being pure, and unadulterated with trugs or other injurious chemicals:
Rum Puach,
Rum Puach,
Cognac do.

Arac do.
Aati-Divorce
Coffee
Aati-Dise
Coffee
Tes
Tes
Pineaple
Anisetee

Anisette, | Whisky $\begin{array}{l}\text { do. } \\ \text { Kirschwasser } \\ \text { do. } \\ \text { Cocos } \\ \text { do. }\end{array}$ |
| :--- | Morning Comfort,

Kuemmel, Kuempel,
Brandy Cochtail,
Appetiser Anti-Hyspepsia
Ladjes Tears. Ana CEAMPAGNES of all brands.

## WASHOE <br> Stock Exchange,

 N. K. cor. Montgomery \& Merchant ats. san francisco.L. W. NEWELL \& OO., Buy and sell Washoe, Esmeralda and other Mining
Stocks and Securitics.

PHITADELPHIA BREWERY, Second St, corner of Folsom, San Franorsco
Hoelscher, \& Wieland Proprietors.
$\Gamma^{\text {hankirful for past patronage to a discriminating }}$ public, we ber leave public, we beg leave to apprise at the same moment our many fiends and patrnns that the above
well known Brewery has been permadenuly located in our new premises, on second street-the formaer resi-
dence of Capt. Folson where wo shall endeavor to con tinue in furnishing our numerous patrons with the bes arcicle of "Bier." We shall strive to perpetuate th good reputation for promptitude and the faithful exeeu custom.

FULTON FOUNDRY \& IRON WORES
HINCKKIE CO ,
manuracturers of steam engines,
Quarts, Flour and Saw Mills; Cast Iro
Fronts for Buildings, Mining Pumps, and all kinds of Machinery

## Nos. 47 \& 49 First Street,

 Between Market and Mission, San Francisco.ALL kinds of Iron and Brass Castinga furnished a
anort notice. Every style of fivishibg to Tron when enst Repairing to Hachmery neatly done Patern Making in its various forms.
D. B. Hinckley, Wm. D. Worth. Wm A. Field.

DONAHUE'S
Union Iron and Brass Foundry,
Corner of First and Miscion Strekits, San francisco.
The Firat Established in the State.
M ANUFACTURE STEAMIENGINES, Quartz Stampers, Amalgamators, etc., etc., at reduced Quartz Stampers, Amalgamators, etc., etc, at redused
prices. Have now the largest and best assortment or prices. Have now the largest and best assortment of
Gear and Machinery Pasterus in the State, a list of
Which will be forwarded lo kyynde deairing it, free of

cust. | Which will be forwarded to knyone dekiring it, free of |
| :--- |
| PETER DONAHUE. |

LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET IRON

The only exclusively Boiler Making Establishment on Boiler Makers. All orders for New Work, the repniring of old Work, executed as ordered, and warranted as to quality.

Old् Stand, cormer Bush and Market Streets. | LEWTS COFFEY |
| :--- |
| $\begin{array}{l}\text { Oposital } \\ \text { J. N. RISDUs. }\end{array}$ |

PALMER, HANSCOMB \& CO;
GOLDEN STATE FOUNDRY AND MACHINE WORKS.
Firat Street, near Market, san Francisco,
RESPECTHULLY SOLICITS ORDERS for all kinds of R MACHINFRY, for Mining and other purnoses. Please send Plans and Specifications.
Having tho most complete arrangements and appointHeaving tho most complete arrangements and appoint. Castings and Machivery on this Conast.
San Francisco, November $29,1862$.

GREATR REDUCTION in prices.

## STANFORD BROTHERS,

121, 123 and 125 California Street,
Keep the Largest slock of all Kinds of
Lamp Stock
And will sail chan pror than any othor
Lamprg, Cemmeyss,
Wicgs, Campiene,
Burning Flutd,
Alcohol, Coal Otr,
Turpentine, Kerobene Oilh,
COMET ILLUMICATING OIL,
Sperm Oux, Lard Oil,
Machinery Or,
Rape Seed $0 \mathrm{Ou}_{\mathrm{m}}$
Cuina Nut Oil,
Polar Oif
Linseed OiL, Raw and Boiled,
Seark's Ow,
Neat's Foor 0x,
Taxners 0if, Etc.
Onr customers in particular, and the country trade gen-
erally, are requested to ascertaiu our prices before purerally, are requested to ascertaiu our prices before pur-
chasing from travelipg agenta, as we will Bell at less
rates than they can aiford to.
aplets

Holiday Presents!
Watches,

$$
\begin{aligned}
& \text { DIAMONDS, } \\
& \text { JEWELRY AND } \\
& \text { SILVER WARE, }
\end{aligned}
$$

## at

BRAVERMAN \& LETY'S, 621 Wasnington street,
 jewelry and silver ware, Of the latest and Most Fushionalle sty:es, which we
have reecived by the last Steamer. Aspo FRENCH CLOCKS,
PREOIOUS STONES,
Which we are selling, SET or UNSET, at the very Lowest prices. braverman of levy,
No. 621 Washington
Dec 291 m Faciug Maguire's Opera House.
LEANDER RANSOM,
Civil Engineer AND

## SURVEYOR,

Having been connected with the public works of the State of Olio for 20 years, and the publ
surveys of the State of California for 7 years. ALSO

## state locating agent.

And as such baving the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acwe.

## Terms-Twenty per cent <br> a a credit of several yeare.

 OFFICE : Second floor of Express Building, N. E. corner of Montgomery and California atrects.

## Agency For Patents.

$\mathrm{T}^{\mathrm{HE}}$ UNDEREGIGNED having been long established in the Yatent A Aency Business, and having favorable
 Tor the securing of Caveats and Patents uliso, will at
ten the the sules of Patat Rights, and to ail matters
counecter with

WETHERED \& TIFFANY
Office, 410 Montgomery street.
CEARLES R. BOND, (Late City and Connty Assessor.)
REALESTATE AGENT,
No. 410 Montgomery street, San Francisco.
Real Estate purchasm and sold, and loans
Negotiated.
READ THIS:
$\mathrm{C}^{\text {OAL OLI EXPLIOION.-ON SATCRDAT EVENING }}$ Street Houne in pouring coal oil from one can to another, h1s wife imprudently approached with a lighted candlo
and the vil exploded. Mra. Brewster's arms were badly
burne burned, as were also the husband's hands- Huwever,
he succeeded in mastering the Hames, and preventing he succeeded in mastering the Hames, and prev
worse consequences.-[Eveuiag Bulletio, Aug. 4 .

## THEN THIS!

Comet Illumitating 0il!
Manufactured expressly for Stanford Bro. this poptuar
Brand of Kèrosene
In warraoted freve froin Camphene, Potroleum, or any
BEST FAMILY OLL IN THE MARKET.
STANFORD BROTHERS,
Nob. 121, 123 and 125 Califc-nia street.
For Sale Cheap!
 cappale of divivige n ten stamp mill, for sale at half
origioal cost. $A$ pppy to

Federal Building, cor. Hottory ynd waskiugton
W. T. \& J. GARRATT, Gity Brass and Bell Founders Cor. First \& Market sts, San Francisco.
B ABET METAL CAETMQS, FiRE RNGIES, FORCE ern and Fand Bellssand Gousg Hose and all outer jonting

 ralt's Patent Improved Jourral istetal.;

> F. G. BEPLER,

Practical Coppersmith
No. 118 (Oli No. 28) Bush street, Hetween Sansome and Rattery, Say Frasorsco.
Whilst thankful for the former confidence bestowed upon me, I desire to sny that I am ready to nalase and line of businces: especially all kinds of apparatus used in Brewerien and Distilleries ; also, all such as are used Where steam, spirits, or pumps of any kind be required. Also, Kitchen
vate houses.
Baking
for Hotels, Restaurants and private houses. Bahing apparatus for Bakers and Confec-
tiouers, as well as all other kinds of All orders from the country promptly attended to.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
 ical prueces. Yield of Sulpliurest from 304 Lu, 50 per ceut

 mill owners. No power nor clean water required for
her rurnose.

SQUARZA'S PUNCH.
home mantanctory.
wnourgale and retart,
No. 44 Letdendorir St.. near Sacramento.
JULIUS SILVERSMITH,
Commissioner for Nevada Territory,
office, in late state caplot,
Corner of Battery $\&$ Washington streets.,
Room 23 , up stairs.
$\mathbf{W}^{E}$ WoULD RESPECTFULYY SOLYCTP TROM THOSE who have busiiness relationswith the above nam-
ed Territory, a share of their patrouage in all mattors requiriag the ofllial actiou of a Commissioder-such as ing drawing up or testimony, etc.

## JAMES PHELAN

(Late J. \& M. Phelan,)
IMPORTER AND JOBBER,
Wines; Liquors, Etc, Eto,
Nos. 616 \& 618 Front street,
Between Jackson add Pacilic Streets,
Sist Fravelisco.
All Goods Guarantęed. Orders Solicited. terms liberal.

Jan. 1-tt.
THEODOR KALLENBERG,
Maker of Models
FOR INVENTORS.
$\mathbf{M}^{a}$
 Dies and Die Sinking, Embossingstamps. Ste Stamps, Dies and Die Sinking, Emossingstamps.
Repairiag of Machinery promptly attended to.
No. 4 Sansome treet, corner Market, No. 4 Sansome ntreet, cormer Market,
au7. 3 m )
San Francusco.

## DEVOE \& COS.'

## STEAM ENGINE

MACHINE WORKS,
LLL KINDS OF MACHINERY, SUCH AS STEAM EN-
A GINDDS OF MACHINERY, SUCH AS STEAM EN-
GINES, SAW MIITOAB, Flour Mills, Quartz Mills etc., elc., made to order and repaired.

ALSO,
$\mathrm{B}^{\text {Lackishthag, turNivg, fintinine, plaking, }}$
AGRICOUTTRAL MACHYRERY made and repaired.
Man Dupiciate parto of Threshing and Reaping
Muchines and Threshing Teeth made to order,
ou the most reasonabie terms.
Steam Engizee and Bollers constantly on


a Journal of mining, agriculture, manufactures, science, art, chfilistry, inventions, etc.
VOL. VI.
SAN FRANCISCO, MONDAY, JANUARY 5, 1863.
NO. 10.

## NECESSITY FOR COOPERATION AMONG SILVER

 MINERS.We would call the especial attention of miners, especially those engaged in silver mining, to the following article which we clip from the Virginia City Union. The business of silver mining is one, above all others, which demands a high degree of scientifie attainment, the closest attention to its detail, and calls fur the fullest and most free interchange of experience among those engaged therein. The absence of mining schools, where men can be properly educated for mining superintendents and engineers, is already beginning to be sensibly felt among our people. It mast be conceded that we have but very few among us, who are properly qualfied to carry on, successfully and economically, this difficult and intricate branch of mining. In no way can the absence of such needful skill be so fully provided against, as by carrying out the suggestions contained in the following article from the Union. Will not the mill men and miners of Virginia City take the initiatory step, and effect an organization, for the above purpose, which shall be the forerunner of many such, on all parts of the Pacific Slope.

Our people are engaged in a pursuit, the working of silver ores of various character, that reqnires scientific knowledg of the highest order inasmuch as they are dealing with problems in chemistry which only the most experienced metallurgists and chemists can, at times, hope to solve successfully. We have tried dry and wet crushing; hot water in
the pans and steam in the tabs and pans; steam in false the pans and steam in the tabs and pans; steam in faise with arastra bottoms to deposit the amalgam in; much quicksilver and little; we use salt and sulphuric acid, sulphate of copper, muriatic acid, copperas, polash, soda, sulphate of soda, catechu, lime, pyroligneous acid, \&c. Now, who among all our mill men can tell the definite and specific object to be achieved by the use of any or all of these various processes and chemicalcals? We have tried the Veach, Sagebrush, Hatch, Patio, Smith \& Dewey, Jones, McCullough, Friebarg, and many other processes, and who among ut can tell which one is the best of them all and what are the comparative results therefrom obtained? Who can tell the chemical analysis of the ores of Gold Hill, Ophir, Gould \& Curry, Potosi, Silver City, Flowery, Humboldt, Veatch Mines, Esmeralda or Silver Mountain, all differing in chemical character, yet all silver ores and worked by the various processes in vogne in this Territory, the results of which whether successful or otherwise, are kept strictly private. Now thia is a short-sighted andstapid policy and should beat once sbandoned.
This business is one calling for all the lights of experienceand the resources of science-far more so than the working of the gold ores of California, that being nerely a mechanical operation. It mas be conceded that we have but few truly scientific men among us, and who could solve the questions proposed; nevertheless, it is only by admitting our ignorance in any case, and asking questions-seeking krowledge, that we can hope to solve any difficult problem. It seems to us that in the present state of mining and scientific knowledge, rouch good might accrue if the mining and mill men would form themselves intor society for their matual improvement ; just as the farmers in the Atlantic States form clubs, and meet say once a week or month, with certain definite subjects to be discussed, each one willing to contribute
to the conmon stock of knowledge that he bas gathered from his experience. So in the opening of mines or the working of ores from the various mines, whether the results are successful or not, we should know it; for it is not alone snccessiful results that point the way to safety,-we need to
know where the shoals and rocks are as well as the deep wa ter. Meetings of this sort might be made interesting and a means of great utility, if rightly carried on. With the present l.ng evenings men have much leisure, a porti
which might well be devoted to inquiries of this kind.
As at present conducted comparatively little useful knowledge is derived from our mining operations, each one work. ing apart, and keeping the results of his work to himself. One man knows little or nothing of the experiments made by his neighbor, and may be treating his ores to great disadvantage; whereas by the knowledge of some simple fact or agent in the possession of the other, he might attain to suc cess.
If by the use of any chemicals he can remove the sulphur from his ores, leaviug his silver a sulphate it does not follow that it will amalgamate with quicksilver, for his sulphate would be found by the application of salt to be beld in solution in the hot water in his vats. If the gold of the Gould \& Curry is associated with tellurium and will not amalgam ate, and he finds that some one mill man uniformly gets more gold from the same class of ore, but by a different process than he does, he has a clue that, followed up, may make "two blades of grass where but one grew before." If the Patio process is a success in itself, adapted especially to the Comstock ores, working them cheaply and with certainty of profitable results at all times of the year in this climate. we may find that out, or whether there are any insuperable difficulties in the way. If the Ophir, Central, Calitornia, Gould * Curry and others on the Comstock are, as I believe, shipping to Europe their first class ores, because the refults obtained by them are not sufficiently near to assay returns to justify them in working them bere in the present state o metallurgical science, but rather fu'ly justify the expense of shipment to San Francisco, the crushing there, perhaps, assay
and aale there, then we need to know it, for the difficulties do not alone concern the owners of the ores. They are matters of public interest-for the employment of labor here and incidental growth of the place are synonymous, and go hand in hand in every community; and as Americans it becomes us, if we have not the science to-day to achieve the results of the melting works of Europe, to have it by impurting the science rather than exporting the ores:

Bridging the Englise Channel.-Mitchell's Steam Ship ping Journal says a project for a railway ferry-boat from Dover to Calais will be shortly before the pablic. The ferryboat is to be 3,000 feet in length, 100 feet beam, and draw but 5 feet of water. In the centre of the deck will be a covered iron tunnel, into which the carriages will steam, with goods and passengers, to be conveyed across the Channel with considerable rapidity. The speed is to be 40 miles per hour. She will have rudders at both ends, and will never require to turn. Her build is to be that of a series of unsinkable tubes.
Another New Journal.-The California Wine and Wool Rogister is the name of a new 16 -page monthly journal, to be published at Sacramento on and after January 1, 1863, by J. Q. A. Warren, the well known California journalist-

Copper Mining Company in Nevada County.-A company has been organized in Nevada called the "Consolidated Gold, Silver and Copper Mining Company." It has located 30 claims on the lead, or 3,000 feet.

The Hesperian for January, has been laid upon our table. It is quite as interesting as usual, and especially valua ble to all interested in the fashions and polite literature. Accompanying the Magazine is the usual paper pattern which has come to be such a welcome monthly present to the la-

Subscribe.-A Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever sead a paper to the "Old Folks at Home?". If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mins ing and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the $\mathbf{P a}-$ cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than ix months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the receipt of one dollar, in coin or stamps. It is our belief that no one will wish to discontinue the paper after being a constant reader of it for even that short time.

The news of the capture of the Ariel, which was telegraphed across the continent immediately after the arrival of the Constitution at this port, on Saturday last, created a decided sensation in New York and Washington. Senator Latham promptly introduced a resolution into the Senate to send a war vessel to protect the California Steaners. The Connecticut sailed from Fortress Monroe, on that errand on Thursday last. Government will either bring the treasure at stated times in a war vessel or accornany the steamers with an escort. New York and the East is more directly interested in this movement than California. For if our merchants cannot safely send their gold to New York, it nust of necessity remain here, which it canoot do without important bereflts accruing therefrom to the undustrial interests of this State.

Eaftern Timber for California-Oak timber is now being cut, in large quantities on the Mountains near Manchester, Vermont, for the California market.

Electrictity and Cbloroform.-An eminent French physician, at Paris, has discovered and announced to the world that an electric shock is sure salvation to any-hody dying from the effects of chloroform.

IT has been found on careful investigation that buildings often take fire from the hot air of furnaces, in consequence of the wood work being too near the register. Both hot air and steam pipes, if they come in contact with wood, will in time set fire to it , and persons cannot be too crefful in putting furnaces into their houses.

## MINING NOTABILIA.

The Humboldt Mines.- A full account of the progress of work upon the famuus Sheba mine of this district will be found in another column.

A correspondent of the Sacramento Union writing from Unionville in this district says that work is being vigorously pushed by the Mars, the Original, the Alamo, the National and the Oroville companies. The Original has taken out a large quantity of ore, and delivered a portion at Price \& Falls mill which has probably commenced crushing by this time. The National, also, has a quantity of rock at the mill. Much anxiety is felt to learn the result of these crushings.
The same correspondent has seen specimens of coal, recently discovered on the Emigrant road, at Rocky Ridge, on the Humboldt, about fifty miles above Unionville. The coal burns freely and is undoubtedly a valuable discovery. A company has been formed for working it, consisting chiefly of Sacramentans. In one of their shafts they have struck a streani of strong sulphur water, which is covered with a heary film of oil.
The Alrsal Mines.-The Alisal silver mine, recently discovered in Monterey county by Joaquin Torres, is located five miles east of the old mines, which were worked successfully in 1806 ond 1812. The vein was lost many years ago, and has but recently been recovered.
The Napa Qucessilver Mines, it is said bid fair to turn out very valuable. The severe storms of last winter damaged the roads to such an extent as to render it impossible to put them in condition for hauling machinery to these mines until late last spring. Nothing was indeed done in the way of obtaining a practical test till within the last six or eight weeks-during which time six retorts were put up and in twelve days retorted 162 flasks of an excellent quality of quicksilver. An additional number of retorts are about to be put ap, and other preparations are being made to work the mine or an extensive scale. The company are sanguine of having a "good thing."
The Reeese River Quartz Mines, according to a Simpson Park correspondeüt are very promising. New leads are being discovered and old ones bèing rapialy developed. A recent correspondent of the Virginia City Union has examin-
ed some very rich ore from veins discovered but a day or two previous to his writing, which he pronounces rìch.
Mineral Sale.-Tha editor of the Virginia City Union has recently examined some specimens of salt from a newly discovered deposit on the Washoe and Humboldt road, a large portion of which is nearly or quite pare. The deposit is represented as from 50 to 100 feet in width, and can be traced over a mile. Mr. Dickey, of the Ophir mine, gives it as his opinion that the salt is much superior to that brought from the Walker river region, and quite equal to the best from San Francisco. The location is very accessible. A company is now being formed to open and work these mines, which will undoubtedly prove very valuable. A large quantity of salt is annually consumed in the silver mines of Washoe, for the reduction of ore, and it is expected that this discovery will soon materially reduce its price. The location of this deposit is 100 miles from Virginia City, 100 miles from Reese River and 30 to 40 miles from the Hamboldt mines.
The Ell Dorado Cospany.-The Tervitorial Enterprise, of Dec. 24th says this company have struck very fine ore in their mine, some specimens of which it is difficult to distinguish from Ophir or Gould and Curry rock. This strike not ouly enhances the value of the claim in which it is made, but is encouraging to those owning veins in the same range, and will also operate to increase the price of feet throughout the entire neighborhood. There are one or two other companies in the immediate vicinity, that certainly stand a very good chance of finding the same rich strike in their mines

Californta Borax Company:-The articles of incorporation of this Association have been filed. The object of the incorporation is the mining and manafacture of boras, sulphur, and other minerals, in California. Capital stock $\$ 300,000$, in 300 shares, of $\$ 100$ each. Trustees: William O. Ayers, Lafayette Maynard, Solomon Heydenfeldt, and Frederick Billings.

Mining on the Colorado.-Rich mines are being discorered on the Colorado, from Chimney Peak to EI Dorado Canon; thence in a northwesterly direction to the "Slate Range." It is said by those who are posted that Washoe will before long find a rival in this section of the State. Within the last few weeks new veins of silver have been discovered in the "Slate Range," which yield most astonishing results. From El Dorado Canon rich veins, which were discovered over a year ago, have been thoroughly tested since J. R. Vineyard erected his mill there, and the yield is very great: The veins are numerous, and su far as tested, appear to be equally rich in both silver and gold. The mines on the Lower Colorado have not been so thoroughly tested, in absence of mills, as those higher up; but the assays are equally as good as any of the others.
Should these mines prove to be in the end as good as they now prospect, it will be the means of bringing a population to this region, with a spriniling of energy and capital, to keep matters moving. It requires some such contingency to regenerate this country and briog' into it a "people; the ma ority of whom are business men in the real sense of the word. Under such a state of things this section of the State will be really what it has been represented, and not the imaginary paradise it at present is.

Tae Savage Company.-The typee in our Stock Report of last week made us say that 50 feet of this Company, which adjoins the Gould and. Curry, were sold for $\$ 60$ per foot--it should have read $\$ 600$, a very material difference. A. large amount of work is now being done by this Company in the way of erecting bnildings, hoisting machinery, and making preparations for an extensive and vigorous working of the mine. The hoisting apparatus is the most complete and substantial in the Territory. The shaft is 12 feet by 4 in size, walled up with three inch plank doubled-grooved at the ends. There will be three compartments, each four feet squaretwo for ore, and one for pumping water. It is now down 170 feet, and will perhaps reach a depth of 250 when the lead will be tapped and worked from below.' The workmen have passed through the Comstock lead in going down, and are now twenty to thirty feet east of it.

The Humboldt Suver Mines.-Roughly estimated, it may not be far out of the way to estimate the namber of leads struck in the Hamboldt at 2500 -inclading the extensions already developed. But subtract from this amount any number which incredulity may suggest, and we shall have a sufficient number of paying veins which when fully developed will elevate this new mining region to an importance but little, if any, short of Washoe. When we look at the collective whole of the mining resources of the Western Slope, the imagination can scarcely conceive of its prospective value to our national progress. Developed and worked as this region soon will be, by the energy and enterprise of the Anglo-Saxon, it will far exceed in importance the rich fields of Mexico and Pera which, in their day, completely revolutionized the commerce of the world. Even when we look at it in the cold, calm light of business and philosophy, and allow the widest margin for difficulties and uncertainties, we can scarcely calculate the values that lie undeveloped in the barren wastes of the Western Slope:

Sllver Mountain.-A correspondent of the Virginia Union from this region speaks very encouragingly of its prospects, and narrates the following singular circumstance :
Messrs. Marks and Bradbury; while prospecting on the Esmeralda ledge in this District, came apou an old drill hole, with fase still in it, covered with debris to the depth of several feet; while three-fourths of a mile farther up the river, in the Monitor District, there is a shaft some ten feet deep, showing that these early prospectors, whoever they might have been, were aware of the existence of gold-bearing quartz at this place, but finding that it would not pay, and being ignorant of the existence of silver in the rock abandoned it.
Mr. Marks lately sold 100 feet in the Esmeralda ledge for \$1,750, to a San Francisco company, who are to ereet a mill bere in the spring for crushing the rock. Brandberry has sold out entirely, bat for how much I cannot ascertain, though it is reasonable to infer it was a large sum, as he was known to have plenty of money before leaving for the East. Placer diggings were worked near here from '55 to ' 58 , by

We desire to call the attention of all those who intend applying for Patents, to our superior facilities for obtaining the same. Oar arrangements are such that we can have all the papers prepared, transmitted and returned, with the Patent Right, in three months from the time the applicant places the matter into our hands; thus saving at least three months delay.
The experse to the applicant would be rather less, if the business be done by us, than if the papers were sent to New York or Washington.
Thus by patronizing a home institution, our inventive citizens can save both time and money.
We have prozopt, intelligent and reliable agents in the city of Waskington who attend punctually to all Patrint business sent to them. We have agents, also, at London, Paris, Brussels, Hamburg, St. Petersbarg, Berlin, Vienaa, nd other European capitals.
Pacific Patent Agengy.....J. SLLVeesmith,
Solictror.

## MUSIC! MUSIC!! MUSIC!!!

## A. $\mathrm{K} \overline{0 \mathrm{H}} \mathrm{LER}$,

Importer of eyery description of
Mnsical Instruments and Musical Merchandise,
Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&e., \&c.. \&e.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS,
$R A N K A S \quad T H E \quad F I R S T A N D \quad B E S T$ In tone, delicacy of touch and durability.
All the leading Musicians of the country have testified to their superiority.
A. KUHLER, Agent fur the Pacific Coast.

## Melodeons and Harmoniums,

 MASON \& HAMLIN. Warranted superior to all others. Latest improvement
In LADIES' BUCKLES.
$\mathbf{M}_{\text {State, as well es to }}^{\text {R. reifully announces to the ladies of this }}$ State, as well as to Jewelers and deulers in Jewelry, that he has made mportant improvements in BCCKLEs, which surpass any and all heretofore made. Their simplicity, commodiousness, and beauty reader theln the most useful as well as ornamental trinkels.
Orders trom the country respectfully solicited. For particulars call at or address, FREDERIK REICHEL,
sep11
Manufacturing Joweler,
620 Merchant street, San Francisco.
INTERNATIONAL HOTEL
The oldest Established First Class House in san francisco
FIRE-PROOF BRICK BUILDING.
FOSTER \& COLEMAN, Proprietors. Most convenient to the Steamers' Lindings, business streets, Opon all night.
and places of Amusement.
NO DARK ROMMS : EVERY ROOM OPENS TO THE LTCHT AND ATR. O DARK ROOMS EVERY ROON OPENS TO THE LIGHT AND ARR.
Every rom is furnished with a Grat quality Patent Spring Bed and ir Mastrass, and are superior to any other Hotel in the State.
The International offers to guests the greatest number and best furnished Family Rooms, and also sets the BEST' TABLE OF ANY HOUSE IN THE CITY.
.the.
NEW ENGLAND SEWING MACHINE for $\$ 25$ !
$T$ TIS MACHINE stands confessedly at the head of everything now before ty, it hap no no rival. In is mase with speeial references to the wate ts of a family, and any one with the aid of the printed directions can learn to work it successfully in a few hours. It will work from leather to the fuest cambric, Without the claange of needle, tension, or feed. It gives the best sntisfaction
where it is sold, and all who use or cxamine pronounce it better adapted to Where it is sold, and all who use or examine pronounce it better adapted to
meet the wante of every family than any other machine дow offered to the meet the wants ot every familached.
public. Guage and hemner aitacher fres of charge. This is the
Every machine warranted, and kept in order free Every machine warranted, and kept in order free of charge. This is th
only cheap machine that will do all kinds of family sewiug. only cheap machine that will do all kinds of family sewiug.
STEWART \& SHEAR, Gener
вер 11
W ILLLAM FELL, Notary Public for Storey County, N. T. Commissioner of
Palder, HaNSCOMs \& Co, Golden State Foundrs, and Machine Works


## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share was levied, Dec. 26, 1862-payable at office, cor. Montgomery and Jackion Sts., on or beforo Jan. 26, 1863.
Savage Mining Co.-The Annual Mecting of the Stockholders of this C 0 . will be held at Ullice, i12, Montgomery St. Jan. 13.
Union G. \& S. M. Co.-The regular quarterly Meeting will be held, at Office, 410, Montgomery St., Jan. 19.
The Madison G. \& S. M. Oo, advertise names of parties who are in arrens for assessments, and give notice that their stock will be sold on the 29th day of Jan. unless said assessments are previously paid.
Franco-Americano S. M. Co.-The following persons were elected ufficers at the meeting of trnstees, Dee. 26thChas. F. Gaian, Presuden and A. S. Gould, Secretary.
Sierra Nevada S. M. Co.-The annual meeting for the election of Trustees will be held at office Nu. 40, Montgomery Street, Jan. 12th.
St. Louis (f. \& S. M. Co,-Tue Annual Meeting for the election of Trustees will be held at uffice No.40, Montgomery st., Jan. 10th.
Lucerne Mining Co.-The Aunual Meeting for the election of Trustees will be held at Oflice 114, Battery St., Jan. 12th.

Central Silver Mining Co.-The Annual Meeting for the ele tion of Trustees will be held Jan. 13, at Office, No. 712, Montgomery street.
Lady Brgan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for assessments, at No. 400, Montgomery steet, on Jan. 27.
Desert Mining Co.-Shares of delinquent stockholders will be sold at anction, for assessments, at No. 400 , Mont gomery street, Jan. 27.

Wide West Mining Co.-The Seeretary of this Company publishes an important notice to Stockholders, in the daily papers.
Reese River Mining Co,-Ten cents per śfiare has been levied apon the capital Stock of this Company, payable Jan. 14th.
San Francisco S. M. Co. have laid an assessment of $\$ 25$ per share, payable on or before Jan. 1st, 1863 .

Pacific Quicksilver Mining Co.-Assessment No. 3, of $\$ 1$ per share was levied, Dec. 22, payable immediately.

Keystone Copper Mining Co, advertise for preposals to purchase or treat 3 d quality copper ore. : Proposals received till Jan. 15th.

Mammoth Ledge Mining Co. give notice of an assessment levied and payable on or before Jan. 13th. Also that the firstannual Meeting for the election of Trustees will be held at office, Jan. 17 th.

Miners' Meeting.-At a meeting of the sharebolders of the Siegel Mining Compauy, it was resolved that a meeting be called of all the miners of the Siegel Mining District, for the purpose of making laws by which said District may be governed, and that said meeting sball take place on the 15 th day of January, 1862, in said Siegel District, iu or near a certain place better designated as the Siegel Min ing Company's Cabin.

Hale \& Norcross S. M. Co. have levied an assessment of $\$ 5$ per share payable on or before Jan. 26 th.

Charles Cany Mining Co.-An assesment of $\$ 150$ per share was levied on the stock of this Company, Dec. 14th, 1862, payable on or before January 14th, 1863, at office, 338 Montgemery St.

Live Oak Copper Minina Co.-Office, Montgomery Block - An assessment of thi. ty cents per share was levied, Dec. 1st, 1862, payable in thirty days.
North Potoss Silver Mining Co.-An assessment of
four dollars per share was levied on this Company Dec. 11, 1862 , pasable on or before January 16th, 1863, at office, Cor. Buttery \& Washington Sts.
Meredith Gold \& Silver Minina Co.-An assessment of two and a half dollars per share. (five dollars per fo $t$ ) was levied by this Company. Dec. ilth, payable immediately , at office, $712 \mathrm{Montgomery} \mathrm{St}$.
Red, White and Blue G. \& S. M. Co. levied an assessment of 25 e-uts per share, on the 10 th of Dec , payable with in thirty days, office, cor. Pine and Montgomery Sts.
Bullion G, \& S, M. Co.-The Stockholders are notified that they will hear something to their advantage by caling at the office of the Company, cor. Pine and Montgomery Sts.
Simra. S. M. Co. will sell at auction, shares on which arrears may be due on Monday, Jauuary 5th, by Duncan \&
Corton G. \& S. M. Co.-An assessment of two dollars per share was levied Nov. 25 , payable on or before Dec. 30 ch , per share was levied Nov. 25, payab,
1862 , at office 522 . Montgamery St.

Basner G. \& S. M. Company has been duly oreanized. The firt annual meeting of the Stockholders of this Company will be held at their office, Dec. 24th, for the election of 'Irustees, elc.
The aunual meeting has been adjourned to the 9th of JanDios Padre G. \& S. M. Co.-An assessment of three dollars per thare was levied, Noy. 29th, payable on or before Jan. 1st, 1863, at office 502 Montgomery St.

Emasett G. \& S. M. Co.-An assessment of twenty-five cents per share was levied, Nov., 21st aud is now due, and payable at office 326 Clay St.
Vibbard G. \&S. M. Co.-An apsessment of 25 cents per share was levied, Nov. 21st, and is now due at office 326 Clay St.
Doytif G. \& S. M. Co--Arl nssessment of 25 cents per share was levied, Nov, 21st, and is now due at uffice No. 326 Clay st.
The Succor G. \& S. M. Co. will hold its annual Meeting, Tanuary 6th, 1863, at its Ollice, Nos. 1 \& 2, Montgumery Block.
Hawley Mining Co.-Annual Meeting for election of Trustees will be beld at Office 204. Front St., an. 5th.
Livingston G. \& S. M. Co--An aseessment of 25 cents per share was levied, Nov. 21st, and is now due and aya ble at uffice No. 326 Clay St.
Isaac's G. \& S. M. Co.-An assessment of 25 cents per share was levied, Nov. 21st, and is now due and payable at office No. 326 Clay St.
Kouler G. \& S. M. Co.-An assessment of 25 ceuts per share was levied, Nov. 21st, and is now payable at office 326 Clay St.
El Dorado G.\&S. M. Co.-An assessment of one dollar per share was levied, Dec. Ist, and payable at office, on N. E. cor. of California and Montgomery Sts., or to Snperintendent in Virginia City.
Iowa Mining Co.-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Montgomery St. on, or before Jan. 3d, 1863 .
Josefuine Mining Co.--An assessment of two dollars per hare was levied, Nov. 19th, and is now due and payable at ffice No. 21 Stephenson House.
Burnside S. M. Co.-An assessment of one dollar per share was levied, Nov. 17th, payable within 30 days, at office 712 Montgomery St.
Hawley Mining Co.-An assessment of 50 cents per share was levied, Nov. 15 th, payable at once, at office 204 Front St.
American Quicrsilver Mining Co.-An assessment of ne dollar per share was levied, Dec. 16th, payable at Company's Office, in Petaluma, within 30 days-At the expiration of which time delinquent Stock will be sold.
Napoleon Copprr Mining Co.-The first annual meeting of this Company will be held at office N. E. corner of Sacramento and Montgomery Sts., on Monday, Jauary 12th 1863, at 8 P. M.
Madison G. \&S. M. Co.-The books of this Company are open for issuance and transfer of Stock, at 608 Merchant St.
An assessment of two dollers per share was levied on the Stock of this Company, Nov.13th, payable at ouce.
Borning Moscow S. M. Co.-An assessment of Two Dollars per share was levied, Nov. 25, for the purpose of defraying expenses of steam pump and machinery now being erected to drain the mine. Prompt payment is requested at the Company's office, corner of Monigomery and Jackson Sts., to Jos. P. Nourse, Sec.

## WASHOE MINING NOTICES.

Caution,-D. M. Tyrell warns persons against purchasing certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standipg in name of W. Williams. (See Territorial Enterprise.)
Asbland $\mathrm{Co},-\mathrm{I}$. A. Gould, in the name of the Moss Co. notifies the A shland Co. that their westerly drift has cut the Lambledge, in the Moss Co.'s ground, from which the Ashand Co. is forbidden to extractiany valuable metals.
Eldorado G. \& S. M. Co.-An assessment of one dollar per' ehare was levied, Ded. 31, 1862, payable, Jàn. 22; 1863, to the Secretary, at corner of Montgomery and California streets, or to the-Superintendent at Virginia City.
La-Plata Oro Co.-Gold Hill District,-An assessment of two dullars per share was, levied, Dec. 26 , payable at once,
at Officu of the Secretary, COurt-house Building, Virginia City.

Texas Co.-Tennessee Ledge.-An assessment of 25 cts. per foot was levied, Dec. 22, payable on or before Jan. 21, 1863.

The Regular meeeting of the Company for election of officers, will be held at the Comet Saloon, Virginia City, on Saturday, Jan. 21.
The North American Co., Gold Hill, will sell at auction,

Jan. 31, stock of shareholders delinqneut in payment of assesaments.
Grass Valley Co.-A meeting of this Co. will be held at the "Medan," in Viariuia City, on Thureday, Jav. 15.

Ashland G. \&S.M. Co.-Au aseesement of fifty cents per share was levied, Dec. 10, payable at the office of M. J. Power, Sec., B. St.
Union Company, Gold Hull-An aesessment of fifty cents per foot has been levied, payable at the rate of ten cents per foot, Nov. 15, 22, 29 ; Dee 6, and 13, at the Company's office, Gold Hill.

Norman Silfer Minino Co.-An assessment of One Dollar per share was levied, Nov. $19 t h$, payable on or before Dec. 31 st, to the Superintendent in Virginia City, or at the office, No. 40, Montgomery Street, San Francisco.
Martin White Mining Company.-An assessment of ten oents per foot las been levied, I ayable to the Secretary, at cffice on C Street, Virginia City,

The Sweeney Co., Gold Hill, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.

Pomman G. \& S. M. Co.-An assessment of Five Dollars per share was levied, Nov. 9th, and another of Ten Dollars per share, Nov. 21, payable at once to the Secretary, R. J. Mitchel.

Coledonia Tunnel and Mining Co.-An assessment of Thirty-two Dollars per share was levied, Dec. 8th, payable immediately to the Secretary, Martin White.

Tae ('maney Rock Co., lying next west of the Virginia Co. claims have notifed the Hazel Green, Tingley and Biach \& Paston Companys that they are tresspassing upon the Chimney Rock Co's ground.

La Crosse Mining Co.-An acsessment of $\$ 125$ per share was levied, Dec. 8th, payable at office 73. O Street, Virginia City.
Hawie Eye Silver Mining Co.-An agsesement of 25 cents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Monegan Co, Cedar Hill.-An assessment of fifty cents per foot was levied. Dec. 5th, payable forthwith; to the Secretary at Virginia City.
Oriental G. \& S. M. Co.-The 3d aesesement of 15 cents per foot, was levied, Dec. 8th, and is payable at office, No. 31, C STreet, Virginia City.

## ESMERALDA MINING NOTICES.

The Zenobia Lode Company, give notice that they claim a supeiior title to the Johnson Co., claiming the same ground, so far as said localities conflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. K addell, J. C4 Dorsey. S. P. Dors y anc̀ James Elder,

## MINING AND SCIENTIFIO PRESS.

THE ONLY MINING, MECHANICL AND SCLENTIFIC PAPER ON THIS CONTLNENT.
THIIRD TEAR: VOLUME VI, - NEW SERIES 1
A uew volume of this extensively circulated paper commenced Sept. 11,
1862. It is intended that every uumber shall bo replete with inf 1862. It is intended that every uumber shall bo replete with information
concerning Minius, Scientific, Mechanical and Industrial pursuits, together concerning Mining, Scientific, Mechanical and Industrial pursuits, together
with soveral original engravinge, of new \{aventions, otc., prepared expressly with soveral orig
for its columns.
for its columns.
This paper is
This paper is devoted to the above purposes, together with the interests hat may be of interest to the reader : and it is the intention of the propriaor to spare no pains or expense in making it equal in interest and valuable nformation to any paper yet published.
Will find it of grrat value, as it will contain all the news anpertaining to Mining, the prices and sales of Mining Stocks, new inveatious of Machinery to the Miner.
thed

> The Inventor ! dium for to purpose

Will find it an excellent medium for the purpose of bringing his invention into notice, of ascertaining the progress of invention in this and other countries, and also of receiving any information that may be necessary
in obtaining his patent, the prenrietor haviug had great expertence as in obtnining his patent, the preprictor haviug had great experience as a
Patent Agent, togelber with facilities at Washington that enable him to ob ain Patente with displatch.

The Mechanic and Manufachurer!
Will be greatly benefitted by its perusal, as each number will contan sereral original engravings of new machines and inventions, together with a large amount of realing matter appertaining thereto. We are constantly receiving the best scientific journals from all quarters, from which we
eball continue to extract whatever may be of benefit or interest to our
readrs.
To Chemists, Architects, Millwrights and Farmers i This journal will be invaluable. All new diseoveries in Chemistry will be given, and a large amount of information of great service to Architects and Millwrights will be found in our columns. The Farmers and Planters will not be neglected, engravings will be given of agricultural implements, and
the farming interest generally will be amply discussed.


Five Copies for Six Months, $\$ 8$
Ton Copies for Six Moaths, $\$ 16$
Ten Copies for Twelve Months, $\$ 30$.
Fifteen Copies for Twelve Months, $\$ 44$.
Twenty Copies for Twelve Monthe, $\$ 56$ :
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$
Names cau be sent in at rifferent times and from diffrent Post-ofices Specimen copjes will be cent gratis to any part of the country.
Roomì $2 \dot{\text { t. }}$, (formerly) U. S Court Building, Corner of Woshington and B
tery stryeta, San Francisco.

# 3ltining and Sricntific 

W. B. EWER,

MONDAY
JANUARY 5, 1863.
The MINNG AND SCIENTIFIC RRESS is published at the Federal Building, Room 24 , corner oi Battery and Washington streets San Fran-
cisco, Cul., at Fifry Cexrs per month, or 84 per annuan, in advance. AdBuisco, Cuh, at Furry Cexrs pen month, or 84 per annum, in advance. Ad-
verrisements, Fifty Cents per line. A liberal discount made to quarterly verrisements
advertisers.

## copper minting.

To those whose ideas of Copper Mining are associated only with the remarkable copper mining region of Lake Superior, where native copper frequently occurs in masses of many tons weight, and where its presence in smaller quautities is of almost every-day occurrence, the mines of California, with their yied of only 20 per cent, appear but poor in comparison. But when we compare our mines with those of Corawall and Devon, in Englaad, their richness, is most extraordinary. No advances have yet been made, in this city, on copper ore which assays less than 20 per cent. It is claimed that ores of less value are unprofitable for shipment.
The quantity of copper ore raised in Cornwall and Devon during a period of 126 years, ending with 1855 , was, in round numbers, $8,000,000$ of tons. During 70 years of this time the average yield of this ore was only eight per cent., yet copper mining was accounted a very profitable business, for both the miner and smelter. The average yield for the ten years next preceding 1785 reached the unusual figure of 12 per cent. During the period of 10 years preceding 1855, the yield fell to an average of only seven and a half per cent. The yield for 1859 was estimated by the authority betore us (published in 1857) at only $63 / 4$ per cent.-and yet the business was considered remunerative. Indeed in the vi.lage of Twista, in the Waldeck, copper ores are worked which yield only two per cent, and at Linz, on the Rhine; and several other localities in Germany, ores are worked which yield only one per cent, and from that to two-all worked in the gross! We propose to give a particular account of these cheap workings in our next issue, this article being too lengthy for them, to-day. Of course, ores of as low yield even as the general average in Cornwall, could not be worked, at present, in California, although we fully believe that by improvements in machinery, and reduction of wages by increase of population and reduced costs of living, the time will soon come when ores yielding from 8 to 10 per cent. may be profitably worked even in California.
The improvements which were introduced into the mines and smelt ng works from 1840 to 1855 kept the profits of the lower yields of the latter years fully up to those of the higher yields of former years.
The average yield of the entire mass of vein stuff raised in the English copper mines is estimated at only 3 per cent. The ore there, as well as in California, after being raised from the mine, is carefully assorted, not more than one quarter of the total amount going directly to the smelting works. The other three quarters being reduced by washing and assorting to a higher standerd of yield before it passes to its final treatment. Of the particular mode of treatment we propose to speak in a future number of the Press.
There is very little if any ore taken from the principal mines in Calaveras county which will not yield 5 per cent., and all the ore ranging from that percentage up to 15 or 18 per cent., averaging, we believe, about three quarters of the entire quantity raised, is thrown aside, as of too low a grade for shipment. The accumulation of these low grade ores at the Keystone, Union and Caleveras mines it is estimated has already reached 20,000 tons, containing fully $\$ 500,000$ worth of copper. The Keystone Company has advertised for proposals to treat or purchase this poor class of ore at their mine, and a correspondent of the Bubletin, calls the especial attention of experienced miners and metaliurgists to their ores. As remarked by that correspondent, we, also, are "satisfied that by means of water the ore can be reduced to the shipping value, or 20 per cent. A roller and jigging machine, driven by steam, would probably be all that is necessary to bring into market this immense quantity of copper. It may be that some process by fire might be advantageously used."
The lowest grade of ores in England and Germany, we bepieve, are chiefly worked by what is known as the "Linz Process"--first roasted and then treated with acids. Another process is also employed where the ores, after being crasbed, are submitted directly to an acid process, without any roasting. Both of these processes are there found remunerative in ores as low as two per cent.

The refuse ores now at the mines in Calaveras, will yi eld an average of from 10 to 12 per cent., which is from 5 to 6 times as much as the lowest grade of ores worked in England. It is but fair to presume that such ores will not long be considered worthless in California.

The Action copper mine, in Canada, the ores from which are transported to Boston for treatment at a cost of $\$ 6$ per ton, yielded an average of only 12 per cent., yet the net profits on this mine for the months of July, August and September of 1862 were as follows:-

This, it should be borne in mind, is the net profits of raising, transporting and selling the ore in Boston. No outlay is required for expensive reduction works, furnaces, \&c. A. profit of $\$ 36,747$ was realized from the above mine, in three months, from 12 per cunt. ore, sold by assay as we are now selling Calaveras county ore in this market; and yet it is expected that with further improvements at the mine, a much larger percentage of profits will soon be realized.
With such facts as these before us we nedhave no fears leas $t$ the value of the Copper Mines hitherto opened in California should be overrated. That they will soon prove quite as productive of real wealth to the State as the mines of either gold or silver we will endeavor to show in our next issue.

## THE SHEBA MINE.

The Sueba Mine, as is well known, is the "Ophir" of the Humboldt District. It is situated at Star City, and is now opened and being worked in a thorough manner, under the su pervisi on of Mr. Richard Powning, an experienced Lake Superior miner. We learn from a correspondent that two tunnels are now being ruo into the mine, one of which has already been driven a distance of 65 feet, and is 6 feet high and nine wide, thus offering ample room for the most extensive and economical working. About 150 tons of ore have already been taken out through this tunnel, ten tons of which were to have been crushed the past week, at the new mill just erected near the mine. We shall probably be apprised of the result of this crushing in a ferw days.
Only two shifts of two men each are now being worked; bat a rise upon the course of the lead will soon be commenced, which will give employment to some 12 additional hands, as stopers, who will be able to take out from 10 to 15 tons each twenty-four hours. The second tannel has been commenced 100 feet below the first and is already in about 40 feet. Stopers will soon be placed in this tunnel also. The mine is very favorably located for workiag, and will soon be able to give employment to fifty men, and turn out from 80 to 100 tons of ore each twenty-four hours. The prospects of this mine are certainly very flattering, and we trust the most sanguine hopes of the proprietors may be fully realized.

The same correspondent from whom we obtained the above particulars, informs us that Mr. Richard Homfray, late of Grass Valley, but now of Star City, has his mill nearly ready for starting.
As in Should Be.-Senator Latham has telgraphed to a party in this city, that Goverament had determined to dispatch an armed convoy with each of the California treasure steamers hereafter, so that no fears of any future danger of capture and confiscation need be entertained by loyal treasure shippers. This intelligence came too late, however, to allay the excitement with regard to treasure shipments on the last steamer; and shippers, as a general thing, forwarded their treasure to England. If, as has been with some reason suspected, it has been the hope of English shipowners, by means of their piratical "Alabama" to change the ccarse of California's golden stream from New York to Liverpool, they have been for the time being, successful. But so soon as a government vessel shall be known to be in readiness to perform the assigned duty, the treasure will again assume its wontedjchannel, and the odium which the inglorious career of that "freebooter" has so justly attached to England, will have to be endured, with but the merest moity of the paltry thirty pieces of silver for which she has sold her national honor

Good brown paper is now manufactured at the Salisbury Paper Mills, in Orange county, from "cat tails," the product of the wild flag growing in low grounds all over the North.

Our Mint its Rules, Charges and Operations.
For parting silver from gold wohen gold
is brluev 300 1 -1000this. fine.
.3ets per oz.
"from 300-1000ths to $750-1000$ has fine 7 .ets
$750-1000 \mathrm{~h}_{\mathrm{is}}$ to $950-1000 \mathrm{~h}$ hs .14 cts ${ }^{\circ}$

## Deposits Sulver Bullion-Purchases.

81.21 per standard ounce $1 / 2$ per ct. on gross value of all gold cont-ined for coinage.
Refining charges (only where gold is contained) proportion of gold 1 to $300,3 \mathrm{cts}$. per oz. gross weight

301 " 500 , 7cts,

## Deposits for Fink Barb

$\$ 1$ 16-4-11the cents. per standard ounce, X6 per et. gross oclue of silrer for making hars; also when gold is contained per ct. on gross value of gold for coiniug. Refining charges as in purchases.

## Bars Sold From Refinmey.

\$1 2lets. per standard oz. $1 \underset{2}{1}$ per ct. gross value to be ad ped for muking bars.

## Depostred for Dollars.

\$I 16-4-11ths. per standard oz. $1 / \frac{1}{2}$ per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
\$116-4-11ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for making bars.

Meeting of the Legislature.-The State Legislature meets at Sacramento, to-morrow. It is to be earnestly boped that the present body will profit by the experience of past Sessions, and so diseharge the great trust committed to their care as to merit the approbation of their constituents, and materially advance the varied interests of the State. The election of a United States' Senator, and a suitable demonstration of the loyalty of our State and her carnest desire to do what she can to strengthen the arms of the general Government in its present terrible struggle with treason, are the two most important matters which will come vefore the present Session. The only further important duty of that body will be to devise waye and means to foster, encourage and stimulate the great industrial interests of our State, As the special advocate and representative of the great leading interests of miuing and mechanics, we shall take especial pleasure in receiving from members orders to supply them with copies of the Peess, during the Session, believing that they cannot fail, from time to time, to gather from onr columns valuable and practical hints which may be of service to them in shaping such legislative action as may have a bearing upon the important interests which we represent. With earnest wishes that the session may be particularly valuable to the State and honorable and agreeablo to themselves we wish them the heartiest complements of the season.

A company has been formed in Greece for the purpose of cutting a canal thirty-four yards wide and six deep across the Isthmus of Corinth, in order that the dangerous voyage along the coasts of the Peloponnesus may be rendered unnecessary. Such a canal was often contemplated, and was even begun, in ancient times, but it has never been formed.

Repairing the "Moses Tarlor.-The opposition steamer Moses Taylor has been hauled into her berth at Mission St. wharf, and repairs upon her engines are being rapidly pushed forward. A new foremast will be placed in her, and the rigging, spars, etc., are to receive a general overhauling. The Taylor will beready to start for Panama on the 21st of January.

Effect of Music on thes Sick.-The effect of music on the sick has been scarcely at all noticed. In fact, its expensiveness, as it is now, makes any general application of it out of the question. I will only remark here that wind instruments, including the human voice, and stringed instruments capable of continuous sound, have generally a beneficial effect.-While the piano-forte, with such instruments as have no continuity of sound, has just the reverse. The finest piano-forte playing will damage the sick, while an air "Home, Sweet Home," on the most ordidary grinding organ, will sensibly sooth them, and this quite independent of as-sociation.-Florence Nightengale.

## Mining Stock Report.

REPORT UF SALES
At tho San Framelsod Mining Stock Board, For tho week uadiag Deeember 27, 1862.
 past week.
Ophir opneed at $\$ 2,300$ and closed at $\$ 2000$. The depreciation has been caused in part by the report that the mino presents a less favorable appearance thu for some monthe previous, and to some extent by the prospect of light dividends for some months to come, in consequence of the payments to bo made to tho Virgiuia Company, and from other causes, ail of a temporary nature. The Directors will meet to-morrow to declare a mouthly dividead.
Gould \& Curry commenced the week at a decline of $\$ 50$, but closed firm at old rates $\$ 2,700$. The tendency of this Stock is to advance. Much speculation is indulged in with regurd to futuro dividends. January dividends have been sold as high as $\$ 75$ and $\$ 80$ per foot. Ten stamps and four amalgamators have been started in the Company's mill, which work sutiefactoriIy. The first bar from the mill wass abipped for this city on the 31 st ult. It was valued at 81000 The entire 40 stamps, with the complement of amalgamators will be put in operation during the present week. The or aults of thoir work will soou determine the actual value of the btock.
Chollar is still in demand at from $\$ 350$ to $\$ 365$. Shares are in de
$\$: 60$, and there is not sufficient stock offered 20 eupply the calls. 8360 , and there is not suffecent stock offered to supply the calls.
Potosi.-The decision of the Supreme Couct in the case of tho Cl
Potosi-The dectsion of the Supreme Court in the case of tho Chollar rs.
Potosi will probubly be rendered to-morrow For some reason or Potosi will probubly be rendered to-morrow .For some reason or other the impression seems to prevail that it will be fuvorable to the latter ; hesce the adyance of its stock the past week from $\$ 90$ to $\$ 110$. Five abarea are quoted by Bates \& Williams at $\$ 120$ per foot.
Savage is in demand at $\$ 600$. Very little stock is offored. The annual meetiug of stockholders for the clection of Trustees will be beld on tho 13th inst. (See item in 2nd column, 2nd page, in reference to this Compauy.) at previous quotations. There appesrs to be a desire for speculation in this stock, which will probably rua it up to higher figures tise coming weelk.
Burning Moscow is in demand at slightly advanced rates. It has been uoted the past week as high as $\$ 621 / 2$
Mount Davidson is stlll quoted at old rates.
Charles Caney in demand at $\$ 17$-dull at its highest quotations, $\$ 20$ Meridith exhibits a ulight decline, but bus many friends.
Iows is quoted from $\$ 130$ to $\$ 140$. In demand at $\$ 135$.
Wide West (New Stock-consolidation with Johnson Co.) Is quoted at from $\$ 265$ to $\$ 200$. At the close of the week, quite firm at $\$ 285$. But few trans. actions reported.
transactions in shares. *
Ophir-60 abares at $\$ 2,300$ per foot ; 68 at $\$ 2,200 ; 84$ at $\$ 2,100 ; 78$ a $2.000 ; 24$ at $\$ 2,200 ; 36$ at $\$ 2,100$ : and 60 at $\$ 2,100$
oould \& Curry-40 at $\$ 2,650 ; 16$ at $\$ 2,700 ; 20$ at $\$ 2,700$.
Chollar-20 at $\$ 365 ; 20$ at $\$ 360 ; 40$ at 365.
Savage-10 shares at $\$ 700$.
Potosi-10 shares at $\$ 96 ; 40$ at $\$ 100 ; 20$ at $\$ 110 ; 5$ at $\$ 130$.
Sierra Nevada-10 at $\$ 621 / 2 ; 10$ at $\$ 721 / 4 ; 15$ st $\$ 60 ; 35$ at $\$ 62 ; 5$ at $\$ 623$ 10 at $\$ 65$. Sanborn \& Co. report 174 at from $62 \frac{1}{6}$ to 65
Buruing Moscow- 10 at $\$ 50 ; 10$ at $\$ 61$. Sauborn \& Co. report 113 a rom 60 to $\$ 62 \frac{1}{2}$.
Mount Davidson- 350 shares changed lands at from $4 \%$ to 5 dollars.
Charles Caney-10 at \$20; 5 at $\$ 20 ; 40$ at $\$ 21$.
Meredith-105 shares are reported at from 20 to 22 dollars.
Wide West-L0 shares at $\$ 280 ; 9$ at $\$ 290$.
Rogers, F. D.- 10 ahrres at $\$ 17$.
Union-(Russ District,) 100 shares at $\$ 21 / 2$.
Burnsidem10 shares at $\$ 20$. Real del Monte- 5 shares at $\$ 18$.

* Quotations made at given rates per foot.


## Coso Stocks.

The Josephine has been but little enquired for the past wrek. It chang. d hands at the Stock Board from 10 to 13 dollars.—Holders asking $\$ 17$ to $\$ 20$ Coso-Not quoted, $\$ 25$ askod.

Whllow Springs-held at \$45. suld at $\$ 10$.

## Mexican Minea.

Mina Pricta finds no recent buyers, but is held at 8130.
Dive Padre is quoted at from 20 to 36 dollars..

## WASHOE STOCY REPORT,

[Compiled from the Daily Torritorial Eaterpribe.]
Adrices from the Virgidia City Stoak Market, since our last issue report but tittle busivess, paro from lack of sellers than buyers. Tho stimulue of fiction and pressure of boliduy demands bavo brought some good stock into the murket at fair rates. At latest accounts the market was very firm. Nearly all the Stucks of admilled value are advancing. The Enterprise aseerts its knowledgo there is " $\mu$ positive demand from capitalista for ground in twelve or fifteen companies $\mathfrak{j u}$ Virgivia district alone, but so carefully are operatious conducted that the stocks in request are scarcely suspected. In due tume the vesl of secrecy will be withdrawn, when the stocks so quietly dealt in, will, of course advance. We to not deem it advisubie to be more explicit at prescut."
The Ebterprise speaks as tollows of the effect of its pet Incorporation Scheme on the Stock Market :-
"Thus far, the effects of the Territorial Incorporation Act point to nothing like disaster. Contrary to the predictions of California croukors, orders from san fraucisen contanue to pour in upou our dealers, and coufdeace in the safety of investunent here is manifestly strengtheued by the Act. Honce the irresjastible inferenco, that the gloomy prophecies of certain par ties here, as well as in sun Franncisco, are simply a coucerted aystem of "boaring," of which advantage will be taken in due time. Timid holdera will do well to make a note of this fact."
Winter Fork.-The work of prospecting appears to be going on with ag much energy ha at any time duriog the Summer. Most compauies bave so well prepared for Winter, that a light anow atorm does not incouvenience them in their operations. Many developments are being made in varioue claims in this and Gold Hill districta, which cannot fasl to netruct the at eution of capitalists and induce iavestmeut.
What bids fair to prove an important discovery has been made just to the West of Guld Hill, by the Duan Company. The indications promise a rich sitver lead, and differ materiaily trom anything heretofore found in that district. Five dollars per foot is ollered for ground.
Il was reported on the 24 th ult. that a very fioe quality of ore had been atruck in the El Dorade, renembliug the Ophar, ete., but wo do not see any aurance in its quotations, $\$ 60$, with $\$ 70$ asked. It is claimed that the ledge is now 4t feet thick, with a paying vein of 12 feet.
There are also reports of rich gold bearing rock being struck to the north of Cedar Hill, at a locality through which it is thought the Ophir lead pass-
Tbe Utah company is also rejoicing over a new development, the character of which is not announced. It is quoted at $\$ 45-\mathrm{a}$ materjal acpanco. There is less dispusition manifested worchase claims in litigation than was apparent last Summer as a cousequence, Moscow is dealt in sparing. ly, while Marison, Geller and La Crusse are a drug in the market, they beug offered respectively at $\$ 25, \$ 8$, and $\$ 15$.
The Entorprise of the 24th ult. says that the Potosi could not then be purchased in Virginia City for loss than $\$ 100$. It was quoted at the San Francisco Stock Board on Wedneaday last at $\$ 110$, an advance of $\$ 20$ on previons quotations.
Norton stock remaius quiet ; wone offered in the market. Several tons of rock trom the mine in front of the Corapany's office, will compare favora bly with the best ore ever taken from Cedar Hill.
The Yellow Jackot Company are having rock from their mine arushod with fine results.
The Union Company, Gold Hill, are having a amall quantity of rock from their mine practically tested by crushing at a mill, which will tell sameching of its velue.
Ashland is offered for $\$ 10$ per foot, a small lot changed hands at these fig-
Ten feet Hazel Green bold at $\$ 450$ per foot.
Oriental is offered for 34 , without sule.
Nevada, which has been in demand for aometime at low figurer, is with-
out sale. The stock is offered at $\$ 6$ per foot.
Five dollars per foot is offered for North American.
Baltic is offered at $\$ 20$ per foot.
Ten feet in the Bloomingdale changed hands at $\$ 450$; Zouave is offered at $\$ 900$.
Birdsall ia quoted at $\$ 17$; La Crosse, $\$ 16$; Sacramento, $\$ 35$ to $\$ 40$; Baltic, $\$ 20$; Sierra Nevada, $\$ 80$; U. S. Tunnel, $\$ 0,000$ per share; Cedar Hill Tunnel, \$1.

## HUMIBOLDT STOCK.

Considerable Humboldt stock continues in market, but aside from the Mars, Cubs, Sheba, South Extension of the Sheba, and three or four other claims, there is little or no inquiry in that direction. There is almo a large quantity of Eagle and Silver Monntain district stock, but ontirely without buyers.

The following stocks, not enumerated above, are in the markat in Virginia City, and held at the Eigures annexed :-

| Santa Fi - - . . . $\$ 2500$ | Summit - - . . ${ }^{\text {S }} 000$ |
| :---: | :---: |
| Eropire . . . . . . . 500 | Washivgton Ledgs . . . 600 |
| McBee - . . . . . . 2500 | Milton - - . . . 2000 |
| Belvidere . . . . - - 1500 | Laboriag ...... 1500 |
| Peytona . . . . . 2500 | Sweezy ... . . . 2500 |
| Durgan . . . . . . . 450 | Caledonia . . . . . 800 |
| ElDorado . . . . . . 7000 | st. George . . . . . . 400 |

The Australian gold fields differ much in character from ours, being mostly in deep diggings, where the hydraulic hose and sluice cannot be used to advantage, or where at least they are not employed so extensively as in this State. They were very rich at first, and for a time they turned out a stream of gold more abundant than that which flowed from the claims of Califoraia.

GIFTS, DONATIONS AND SUBSCRIPTIONS
To the work entitled "The Metalic and Agricultural Wealte of tee Padific States." The publisher desires to thank the several gentlemen whose names are hereto appended, for their mrgnanimity and aid in behalf of this important work.

## Samuel Brannan, Esq., Citizen. <br> John Parrot, Esq., Banker.

Hyam Joseph, Esq., Citizen.
Ira P. Rankin, Esq., Collector of Customs.
S. H. Parker, Esq., Ualifornia, Postal Agent.
S. O. Bradshaw, Esq., Pacific Metallurgical Works.

David Henriques, of the Board of Stock Brokers.
Rev. Dr. E. Oohn,
Rev. Dr. H. M. Bien.
J. M.. Mugarietta, Mexican Consul.
H. Meyers, Citizen.

Heary. M. Hale, City and County Auditor.
Dr. J. C. Tucker, of S
James Hitchens, Sup't of Willow Spring: Mine.
G. F. Deetken, Sup't Metallurgical Works.
E. Torres, Ex-Mexican Minister.
M. Trebatard, Merchant. San Francisco.

Greenberg \& Mandel,
A. B. Stanford \& Co.,
B. Hamburger,

Levy Strauss,
M. \& J. Steinhart,
L. King,
S. Rosenblatt,

Herman Gerstung,
Henry Newstadter
Whlfelder \& Cahn,
Wm. Meyer \& Co.,
Hecht Bro. \& Co.
H. Cohn \& Co.,

Scholle Bro's
I. Bluxome, Jr.,

Chas A. Crane, Esq.
E. H. Washburn, 'Iax Collector, San Francisco,

Jais W. Bingham, Olerk Buard Supervisors, S. F.
C. Bartlett, Clerk Brobate Courts S. F.
M. C. Blake, County Judge.

Rev. Thos Starr King,
Dr. L. O. Lane, M. A. Prof. Pac. University.
John Levy of Braverman \& Levy, Importers.
Dr. J. B. Beers, Dentist,
William Fell, Esq., of Nevada Territory,
H. F. T'eschemaker Eisq., Mayor, of San. Francisco.

Gen. R. M. Drum, Insp. Dep. of Pacific.
R. B. Woodward, Proprietor of What Cheer House,
$\mathrm{Dr}_{\text {: }}$ S. W. Kellogg, of Kellogg, Hewston \& Co.
A. H. Houston, Contractor,

Alsop \& Co. Bankers,
St Losky, Lovy \& Co., Tobacconists,
Macondry \& Co, Commission Merchants,
Thos N. Cazneau, Com. of Emigration,
H. B. Platt of Platt's Music Hall,

John J. Hucks, Manu'acturers,
Thos Bangh, Prop. Merchant's Exchange.
E. Dupres. Broker, San Francisco,

William Schmolz, Coiner, U. S. B. Mint.
Robert J. Stevens, Supt. U. S. Branch Mint,
Conrad Weigand, Assayer
Henry Baker, Cashier
W. B. Gaold, Weigh Clerk,

Ogden Hoffman, U. S. District Judge,
Wm. H. Sharp, U. S. District Attorney,
Wm. H. Chevers, " Clerk,
Harvey S. Brown, Attorney and Counsellor.
F. A. Fabens, Esq. Altorney.
T. W. Park, Esq.

Byrne \& Fireelou, Attorneys \& Counsellors,
Garvey S. Brown,
Gregary Yale,
P. W. Shepheard, Ass; Dist. Att'y.
T. Dame Pres S. F, and S. J. R. Road Comp.
W. Hayes of Stanley \& H.
A. Kohler

John E. Kincaid Contr.,
W. W. Dunn Machinist
W. L. Booker H. B, M. Consul

Ant. Forrest H. I. M. V. Consul of France
H. Behr Dr. Consul Saxe Anhalt

Steinhert Bro.,
Greeuhood \& Newbauer
E. L. Goldstein
H. W. Wadswort
W. B. Cooke

Lent Sherwood \& Co.
Stein Simon \& Co.
And. J. Moulter Sup't. Publ. Sehool Cal.
Dr. Isaac Rowell Prof. Chem..etc., P. M. Univ'y

Leander Ransom, State Locating Agent.
Chas. A. C. Duisenberg, Consul of Bremen.
Chas. W. Rand, U. S. Marshall,
William V. Wells, Consul of Guatamala.
M. Klinkofstrom; Vice Consul, Russia.
C. Fischer, Consul of Austria.

Louis Sloss \& Co., Brokers.
A. W. Von Sehmidt, S. V. W. W.

Reynolds, Reis, \& Co, Bankers.
R. Beverly Cole, Prof. Obst. P. M. Univ.

Alfred Borel, Merchant.
S. Simon,

Heynemann \& Co.,
Rosenstock \& Price,
Henry Voorman,
H. Levy \& Co.

Wm. T. Coleman \& Co.

We would call the attention of our readers to the Stock Report which we give from week to week in the columns of the Press. This report is very full and, carefully made up from the most authentic sources, embracing all attaiuable transactions both in this city and in Washoe. Our report for this city, embraces a full statement of the sales at the Stock Board-each day's operations being presented in a tabular form. . We also re-produce the substance of the several Mining Circulars issued in this city. In order to give each weeks's transactions, full and complete, we have changed our publication day from Saturday to Monday. We istend to make each number of the Press a full epitome of the mining intelligence of the previous week, and add thereto such matters of general interest and information as shall be thought useful and advantageous to the miner, and the mechanic.

## Important Publicaiton.

We have been favored, by the publisher, with the title page and prospectus of the quarto work entitled, "The Metalic and Agricultural Wealth of the Pacific States.". The editor of this work has recently disposed of the "Mining and Scientific Press," with the view of devoting his entire attention to the publication of the work; to this end be is making arrangements for an early visit to the Atlantic States and Europe. The work if carried out according to the prospectus, will be one of the most valuadle publications yet presented to the pablic, and will prove of incalculable bene tit to California and the Pacific Coast generally, in bringing the immense mineral wealth of this region more prominently before the Capitalists of Europe. The object is a laudable one and ought to be encunraged. Mr. Silversmith is one of our oldest citizens and is well acquainted with the sub jects of which he treats. He desires but little aid and that we trust he will readily obtain. The following is the pros pectus:
prosfectus to the peopie of the state of ca
TERRITORIES.
The simbscriber, one of your earliest citizens of Califorma, and for the nal devoted to the chief resources of the Pacific States, resprectully submits the fullowing plan and propositiou for the purpose of brimging hithar from England, France and Germany the workiug classes, mechauise, artizans. miners, and metallurgists for the purpose of developing the resourets of nur
thiuly populated states and Territories, thereby reducing labor, the entablishng of factories, the occupatoon of the millions of acres of arable lanet now lying dormant, and to wort our mioes. The betefits accrining to ou,
Government-to marine couveyances-the merchant-the manufacturer, Government-io marine couveyances-the merchant-the manufacturer, provided the facilities are oftered to such emigrants, and according to the
tenor of our laws governing such. For these purposes the subscriber detenor of our laws governing such. For these purposes the subscriber de-
siree to seek only the necessary or pecuniary aid to take him across the Pacife and Atlantic, so that he may be eonbled to lay before the poople of Europe a work which he has compiled from authentic sourecs, comprising the
the mineral wealth of the Pacific States, includiog partly Mexico, Lower Califorbia, Britist Columbia, ete, together with a synopsis of the climatolo-
gy , agriculture, arts and manufaclures, with iuteresting statistics of gy, agriculture, arts and madufaclures, with iuteresting statistics of our
imports exports, and population. Also, the organie acts of our state, the
local and general laws governing mining, the Pre-egptiou Act, and kmilred locul and goneral laws governing mining, the Pre-enptiou Act, and kindred
subjects pe taining to the Pacific States. The au hor roservug for himself the right of trabslation of this work (whicl has cost him three years of his
time to collect and compile) in the German and French lauganges time to collect and compile) in the Griman and French langaages.
He enntemplates making the tour to the Atlantic States and Eurone in February or March, 1863, and will equip himself with the mineral materials, fossil remains, etc., and illustrate them by diagrams and discourses. throughout the Ablantic States and Europe.
Such a work which your petitioner has in
Such a work which your petitioner has in view cannot be published in
this State without an extraordinary outlay, nor bave we the mation this State without an extraordinary outlay, nor bave we the materiais, ar.
tists or skill in copperplate or wood engraving. The work will comprise tists or
from 400 to 500 pages, to be bandsomely intinstrated with colored phates, maps, etc., quarto form. The subscriber will add tbereto a complete list of all the associations and companies, especiully minngg companies.
He gues to Eurupe for the purpnse of seeiug all the manuraur He gues to Eurupe for the purpnse of seeiug all the manufacturing pla-
ces, machines aud utensils; also to the leading mining districts ces, machines aud utedsils; ; also to the leading mining districts end metal-
lurgical establishments, to acquire from the best sources there the best mirgical establishments, to acquire from the best sources there the best
mode of treating our rich minerals, and lay these several important feat. ures before our people through the Miving and Scientific Press, and the work he hereby offers. But the most important subject in his mission is
the inducements he will offer to Europenas of nur immensely rich mining the inducements he fill ofier to Europenas of nur immensely rich mining Gields and agricnitural lands, together with the great adyantuges offered by a liberal and protective government for industrious citizizns.
The subscriber, therefore, calls upon the cilizens in the Pacific States who this gravil but laudoble undertaking with means. Each subscriber will be furnished with a copy of this work, which is desggoed to be usefut iut the
tounting louse, to the profescional man and miner. The author desires to penple of this State he will refund after the publication of the work, or leave the amount to be taken out in books. Respectfully submitted

RECENT Patents-Granted to California Inventors through the Pacific. Patent Agency, Jo. Sulversmith Solicitor:
Herman Camp,-Patent for Quartz Crusher and AmalgaW. H. Riceardson-Putent granted for Washing MaEhine. Matteson, Nevada: Hydraulic Derrick. This invention has been illustrated in this journal, and has obtained great celebrity i hroughout the State.
Elander Heath, San Francisco, Spiral Spice, and 1P62, Vol. V., No. XIII.
G. F. Deerken, formerly of Nepada: Apparatus for separating Gold from Pyrites. This is one of the most useful inrentions of the day. Mr. Deetken has successlully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaged in the same occupation. Mr. D has recently established himself in this Ccuuty, on the San Brino Road, year he Islais Creek, where lie has erected chemical and metallurgical works.

## Dom San Francis

Pacific Mail Steamslip Company-Steamers leave for New York via Panama, on the lst, 11th and 21 st of each month. 1st cabin, $\$ 250 ; 2 \mathrm{~d}$ cabin, $\$ 200$; 3d cabin or steerage, $\$ 100$.

Nicaraqua Sieamshin line, Ross, Dempster \& Co,, ugents. Steamers leave for New York vin isthmus of Nicaragua, on the 21st October, and semi-monthly thereafter. Price of fare not yet stated.
To Portland, Victoria, \&c., \$60. Crescent City, Trinidad dc., $\$ 20$ \$30. San Diego, Monterey, and Los Angeles, $\$ 20$ to $\$ 30$. Sandwich lslands, per sailing vessels, $\$ 100$ to $\$ 150$. Australia, sailing vessels, 1st. class, 250 to $\$ 300$, China, and Japan, sailing ressels, lst class, $\$ 200$ to $\$ 250$. Mexico, $\$ 30$ to $\$ 50$.
Califcri, ia Steam Navigation Company dispatch steamers daly to-Sacramento, $\$ 5$; Stockton, $\$ 4$; Petaluma, $\$ 3$ overtand Mail Company -

## THE EYES! THE FYES!! THE EYES!!!

## DR. E. H. PARDEE,

Ooulist and Aurist to the San Francisco Deaf, Dumb und Blind Asylum.

After a protracted blindness of more than five years. Dr PARDFE has made himself thoroughly and scientificall: acquainted with all diseases of the Eye, and is now practic ing with a success that cannot be surpassed in the Uniter States; and as proof of this he substantiates by many case now in California that have been cured by hin, after havin? exhausted the skill of the eninent physicians and oculists c New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 1 ears, Dr. Pardee asserts, and is prepared to prove, the there has been more blindness from bad and improper treal ment than from disease itsell-how can it be otherwise whe we take into consideration the effects of the old hacknie o-day and Bluestone to-morrow-more painful than deat and always more tedious than the disease. Patients an daily presenting themselves with chronic cases. and on $i$ quiring what had been formerly done, the almost invariab reply is, "I had my eyes burned with caustic or bluestone was bled and blistered, then cupped two or three thee in the morning-was ordered in a dark room-to keep $n$ eyes tightly bandaged-to avoid the open air and exercise with fifty other inconsistencies, the aggregate of which sure blindness. Patients should be careful and not pla their eyes at the mercies of a man who does nothing b burn them daily, not investigating the circumstances of ea particular case, but ignorantly and blindly adopting and f lowing theories the most erroneous, and destructive to $t$ eye. How much more rational and consislent to consult experienced Oculist, who thoroughly anderstands every d ease of this tender organ in all its aspects and varieties. PARDEE has from sixty to one hundred patients under daily supervision, and, with but very few cases, they have been treated by ather physicians hefore applying to him-a all to no benefit. Those wlo are doublifl are permitted call at Dr. Pardee's office and confer with the many patie who conveue there between the hours of 9 and 12 in forenoon. The Dr. has a large and only assortment of $A$ ficial Eyes on this coast juserted, having all the moveme of the real eye, and that they lor $k$ so life-like that no one tell them, when properly inserted, from the real eye. Th eyes are sold reasonable.

All the operations performed, such as "Strabismus," cross-eyes-" Cataracts"-or removal of the Lens by absc tion or extraction;-" Plerygium," or fleshy membranes gr: ing over the eyes. Artificial Pupils, \&c
OFFICE:-Clay street, above the Plaza-opposite P1 Hotel-old No. 217 , up stairs.

PACIFIC MAIL STEAMSHIP COMPANY'S hine ro pANAMA FOR PANAMA,
The following Steamships will be dispatehod to the month of January, 1863 Jan. 10 th-st. Locts, Captalu E. S. Farusworth,

31st-fOLDEN AGE, W. H. Hudson gCommander.
Will leavo Yolsom street Wharf, with Passongers and Treasure, for Punama at o oclock, a. m., penctuali,y,
Aof enanect, via Panamn Rallroad, at Agpinwall, with steamships for N. York For freigut or passago, apply to
A. B. FORBES, Agent.

Je4
Corner of Sacramento and Loldesdorif sts.

## OPPOSITION

People's Line to New York. ROUTE CHANGED FROM NICARAGUA TO ISTHMUS OF PANAMA.
Through in Twenty-one Days!!!
\#ङ FIVE DAYS AHEAD OF THE MAIL. CGX
The fast and favorite Double Engine Steamship
MOSES TAYLOR,
E HOWES
Commander.

## $\mathbf{P}_{\text {From mision }} \mathrm{A} M \mathrm{M}$, A ,

Punctually at 4 o'clock P. M., of
WEDENESDAY, . ........ JANUARY 21. 1863.
Cunnecting at Aspinwall by the Panama Railroad,

## AMERICA,

2,000 Tons. The America bas proved herself the swiftest Steamship afoat, and in com-
rort, cleanliuesa aud regulation is incomparably superior to ny other ruaniug to Aspinwall.
The sloses Tuylor is snown to be the fleeteqt ship on the Pacitici, and pas-
 obstructions what are cald th lave been thraw in the way of pase
by the Nicariagua Government, canuut pessibly occur on his route.

THE PEOPLE'S LINE
Has been establikhed to meet the universuld demand for an

## OPPOSITION,

Aod every Californian should giva it a pref.rence for the public good, as
Reduced Fare, Good Accommodations, and Quick Trips.
Thia line is intended to be n permaniency, and is not put on for the purposa
of beilig bougbt or driven of. Speed, safety and the utmost com fort of pas
 Tight Compartments, auli is unequalled for sarety as well as apeed.
oc7

1. Ri ROBERTS, Agents,

## REMOVAL.

OFFRCE OF THRE PACtinic Metalliurgicat Works
IA removed to 318 Califorma sireet. Having eularged our Works at
North Beach, we are now opabied to reduce froma 10 to 15 tous of Silver or
Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings
meduced or purchased. reduced or purchased
COPPER OBLE -Highest market rates advanced in eash, for shipmenta.
S. C. BRADSAM miyso 318 Califoruta striét, near sansome, ap stairs.

## LABOR-SAVING

Rock Drilling Machines.
TO ENGNEERS, RALLROAD CONTRACTORS, TORNPIEE AND QUARRY.
The subseriber Patentee and Agent for GARDNER'S PATENTS, mill montinue to receilie orders, for

## HAND, HORSE, AND

STEAM-POWER MACHINES.


## A. ROMAN \& CO.

WHOLESALE AND RETAIL
BOOK ESTABLISHMENT. 417 and 419 Montgomery street, SAN FRANCISCO.
Oenders respectrully solicited and promptly attended to.
A Treatieo on Motallurgy, Comprising Mining and Ceneral and Particalar
Motullurgical Operations, Etc. Etc. By Frederick Overmana.
A Manunil of Metallurgy, or A Practical Trestise on the Chemistry of Metale.
Manuaf of Mutallurgy, more particularly of tho precious metala; but includ ing such others as are employed in dental practice.
Recordd of Mining and Metallurgy, or Facta and Mermoradde for the Use or
the Mino Agent and Smelter. By Jaues Philips and John Darlington Piggot on the Chemlatry and Mining of Copper.
Practical Mineral Assaying and Mising. Overman.
Gold Mining and Aksay lag; by Pbiipe.
Miners' Companion and Guide, compiled by silvorsmith.
Assayers' Guide; or Practical directions to Assayers, Miners and Smelters, Practical Assaying, by Michell.
$\mathrm{i}_{\text {lver }}$ Ores and Silver Mines, ©y Pro. Blake.
Ure's Dictionary of Arts, Manutactares and Mines. Weislach's Mechanice of Machinery and Engineering. Nevillo's Hydraulic Formula Tables.
Freseuifs' Chemical Analysis.
Tozerner with many ot
Beoks imported to order on short notice.

## A. ROMAN \& CO., $417 \& 419$ Moritoomerv 8treet:

Gird's BUDDING KNIFE
THE ATTENTION OF FARMERS, HORTICELTURISTS AND CUTLERS, OR invention. For deseription and engraving see Minisa and scientifo Press No. 24, vol, v.
State, Territory aud workshop rights for sale at reasonabte priees.
$\begin{aligned} & \text { Address, } \\ & \text { J. SLLVERSMITH, (Ageut for Patentee.) }\end{aligned}$
sep1-3m
J. SLIVERSMITH,
$\begin{gathered}\text { (Ageut for Patentee) }) \\ \text { San Francisco. }\end{gathered}$

## Bur Seadfung fïf Srfitber.

Grfinber, melde nidyt mit ber englijden Spradje befant find, fornen ihre Mettfeilurgen in ber Deutidjen Spradie madien
Sfizzen von Erifiniungen mitturzen, Deuflid gejdrieberen Befdreibungen betiebe man zu aboreffiren an.

Jox. SILVERSMITH, Federal Building; Room 23:

## RASCHE \& SONS, <br> 131 Montgomery street., bet. Bush aina Sritter, <br> SAN FKanclico <br> wholkgale and retall dealeiers in

PLANOS, SHEET MUSIC
INSTRUMENTS OF' ALL KINDS; \&c:, \&e:
Sole agents for the celebrated manufacturers,
A. A: GALE \& CO., New Yor $l_{\text {; }}$
T. GILBEkT, Boston;
C. MEYER, Philadelphia.

Whose pianos they have always on hanu, for sale and to rent.

## Planos for rent.

New Music received by every steamer. New Music pub-
lished. Music assorted and bound in the best ste eral discount made to the and bound in the best style. A lib eral discount made to the trade' and professors of music.

## WRIGHTs PICKS.



Jorn WRiGHT, or Sacramento, has estabisned himself in San Fravcise


je20
WRIGET,
Oppoite Battery, San Francisco.
TURNER, MARSH \& USGOOD, Successors to C. O. Turner \& CO., importers
of WiLes and Liquors, S. E . cor. Frout aud Sacramento sts.
ml



Dr. Van Zandt,
Consulting Physioian and Surgeon, OFFICE:
Corner of Washington and Sansome Streets.
The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetions Problem of Material Nature, Electricity: Made Subservient for the Cure of all Nervous and Spinal Diseases.

THAT THIS RRINCIPLE, successfuly applised to lifensed statee by of the systam, is to prove the greal sougbt-for vecesgity, long wanting derangemeuts of the human body It is a purt of the great princlple of vi-
taltity knowr mes nervous influence and nccessarily must have much to do in obviating diseased action.
In its praise ; for it is highly probable that in health there is and exact equiHbrium of tho ELECTRJC principle; aud sbould this secret and hidden equi-
poise of heath be brokeu or lowered-should the body be uegatively elecpoise of health be brokeu or lowered-should the body be uegatively elec-
trifed when it should bo posifively chargen-is not the current brolen, nud is there nut a war of forces going ou in our system? This needs correcting
and fur order that ibe tisues of the body should be susceptible to remedia and in order that the tiasues of the body should be susceptible to remedia
agents we must frst restore and Awaken the Magaetic Lite Within Us, Tho spinal and sympathenc nerve systems. Behcving as 1 do mogi firmly upois our bodics in health and dscase, I am led to take adyautage of the press, through which to awaked attontion to the subject, that good many
come fuall. come fu all.

## No Compromise with Disease.

Give the body strength, and nuture will relieve hersolf. Purify the life btood, reuder the stomach, liver, heart, kidney and all the natural functhe aervous, the drapirited, the melanchoito, the dyspectic and the palaied, invalif


## To the Ladies of California:

Dr. Van Zandt's success with complaiuts of women, both in fannily and
office practice, is owiag to his correet viuws of the origin of alt their adies. Ladies can consult him with entire couddence, as be is no speculatos upod human ills-but is proving himself the ouly member of the legitimate profession in California who is really successful in removing those ilis which
are the peculiar province of the sex. His high appreciation of their are the peculiar province of the sex. His high appreciation of their dell-
eately attuoed uervous orgauisim, together with their great sympathetic
life, readers him doubly able to assuage those silent complaintugs which cately attuned nervous orgauism, logether with their great sympathetic
life, readers him doubly able to assuage those sileat complainfugg which
they bear so patiently and so long. No social disquietude need louger afthey bear so patiently and solong. No social disquietude need longer af-
fict our home circles; for he can arouse the stricken energies; restore the wonted tonicity of the body; ; wakeu the melanclolic and despondings ; ar-
rest those drius which cause so much anxiety ; cure those protegin malarest those draiss which cause so much anxiety ; cure those proteain mala-
dies which have so loig

## Baffled

Develop appetite, life and animation, dispel pervous headache, sinking at
the stomach, wandering pains, wasting away of strength ; extreme debility the stomach, wandering poins, wasting away of strength ; axtreme debility
end lifelessness, bectic cough, aleeplessness, unpleasant dreams ana that general depressiou of life's powers, which go to render her life a misery and death a boon: Dr. Va Zanut, with his new method of exciting the Electro-Galvanic current; together with his remedial meeisures which ard adapted to tne Deceissities of Ca liforuia, will assure you of a complete and
radical recovery of all bodily and mental lafirmities, and will restore your to usefilinêsery and spare you a blessing to your family and to society. you a blesing to your family
AII the "Worla Over'
Wherever disease exiats, whether special to the soil and chimate or com-contagious-it is as necessary to restore che ELECrRo-GALVANIC cquilibrium, especially ${ }^{\text {in }}$ California, ass it is to give food to the starving. This atate-
ment is based upou a series of facts extendiag through many years, and ment is based upou a series of facts extendiag through many years, and
verefed by huadreds of patieats ; so that no priuciple of science, no rule of
 tion of Electricity for the cure of all nervous states of the body, faulty digestion, mental'nnu physical debility or prostration, coughs, asthma, wandering pains of a rbeumatic, gouly ur mercurial character, and all forma of
disease, the result of scrufula or caohectic habit of body,

$$
\begin{aligned}
& \text { of scrufula or caobectic babit of body, } \\
& \text { Nome Need Despair or fielief. }
\end{aligned}
$$

If you have alcers which will not heal-pains that cannot be removed $\rightarrow$ mela acloly which you cannot shake off-losi of power which you cannotrego sleeping-busiuess that languishes for want of -wakefulvess thatkuows society can fill-suspicion which no assurance can allay-Go to Dr. Van Zaudt, for his great success, and the safety with which he administers his new method of Electrical excitation, together with his remedies, which are
adapted to the requirements of climate and consthtution, will sssure you a adapted to the requirements of climate ond constitution, will assure you a
radical removal of all bodily and mental infirmities, within the scope of radical removal of all bodily and mental infirmities, within the scope of
science and man to remove.
It must not be forgotten by the oye and ear sufferers that -Dr, Van Kañdt geon en our Stato, who has a diploma for that branch of practice: Verymany of the eyeand ear troubles are purely deranged nervous actions, and are cured by his electro-galvanic baitery -ad amedrofla, squinting, catarart,
roang and buzzing noises in the ears, giddiness, etc. All operations successfully done on those delicate organs of sense.
OEtice-Corner of Washiugton and Sansme atreets.
nov29-3inin

## FREDERICK KESMODEL, Cutler and Surgical Instrument Maker 817 KEARNY STREET,

Between Jackson and Washington streets,

## SAN FRANCISCO,

R ECETVED a diploma at the Fair of the Mechances' Institute, September, R 185s, also in Sacramento in 1861 for Calfornia made Cutlery. terested, is called to his new method of 6tting and adspfing Truisses to the different cases. It is a well known fact that there has as yet been no system of fitióg Trusses. There are many different styles which have proven good in many cases, but they are all uncertaiu and cannot be r-lied ofy, and in severe cases are altogether useless. The following are some of the advarr-
tages I claim for these Trusses ajove any and all others: First-The Pad is tages I claim for these Trusses ajove any and all others: First-The Pad is
formed on the parts to be compressed by taking a plaster cast. Second-
Haviag a correct model, it enables me to make the Pad of any desirable material, such as horn, ivory, etc. Third-The Pad is oo adjusted to the apring that no movement of the body will move or displace it. There are
ap3 4

50 lbs. MARINE AND
Hixe-Proof Paint,
 M Worls in this city for Hulls and Dects of Vessels
 or roitums on Syipsp it is equal to a coast of stoue, nad quite equal to copper, no woit
cheaper than any olther paict. DIRECTIONS
For Decks of Ships, use two parts Minoral Paint, one
part White Lend mixwith Linseed oil For Bottoms of veselis, ues one phrt, ground sulphur threo parts Mineral Paiot, mix with Coal Tar and apply For salo by all Ship Chandlers and Tradesmen, in boxe
of 50 It 5 . each, or by the Pacilic Metallurgiend Works.

25 POUNDS FIRE-PROOF PANT.
When used on Roofs, Buildinga, or Fences, it is equa Fire. Proof, and coasting lesa than any paint. DIRECTIONS:
HoUSE:- - Mix three parts Mineral Paint with one part white ead, thin with Limssed oil: if a ligbter color $i$ wanted, mix less paint, more lead.
Lead; mix with Linseed oil. Put ir thict onart white as one coat when properly appliedwill last three years
G. T. Fouque, Superintendent.

WORES, North Beach; Ofer fornia sto, Sun Francisco.

## Attention! Attention!

A TRACN OF LAND, EMBRACING AN AREA OF 400 A Acres has recently been surveyed and plotted out into lots, which are aow offored for sale on reasonable
terms as any ever offred by the various Homestead Aasociations in our city. The tract is snown as the "University Mound Survey," and derives its uame from the fact that the Directors of the University College have selected a site of sbout twenty acres in the centre of the tract for their College Building and Park- This property
is more beautiful than any other ever offered in this is more beautiful than any other ever offered in this tural progress of improvement soon be in great derasod for places of residence. That this property will increase in value, is as certain as the future of San Francisco. Investments in Real Estate, it is well known, have
paid as largely as any other, and insurance agninat risk paid as largely as any other, and insurance againat risk
of depreciation in value is secured by the sure and rapid increase of our population.
Invest in Real Eslate, and you will find it more profita-
ble than juvestivg in wild cat mining stock ble than iuvestivg in wild-cat miniug stock, or loaning money that may be paid in depreciated curreucy,
The prices for lota in the above tract will remain uniform until after the holidays-that is, without intereat. The title to the land is perfect.
for further particulars apply to
HARVEY S. BROWN, Lithographic Maps can be seen and had at the above

## V. SQUARZA'S

Punch Factory.
M R Row in unis State for his Anti-livorce Liquere and similar productions, asmanufactured by him. We may mention that Mr. Squarza is au fait in the chemico-
distilling science, hence the celebrity of his articles. He distillivg science, hence the celebrity of his articles. He which are constantly throaged with our bon vivadts. The following is a list of bis liquors, all of which have tasted, and find them the most delicious and harm less beverages in this city, being pure, and nnadulteraed with arugs or other injurious chemicals:
Rum Puach,

Rum Puach,
Cognac do.
arac do.
Anti-Di Coffee
Pineapple
Anisette,
unch,
do.
do.
do. Strawberry Puncl
Whisky
do.
Kirschwasser do. Kirschwasser
do.
do.
docos
Moraing Comfort Kuemanel,
Brandy Cocktail
Anti-Dyspepsia
Ladies' Tears.
Appetieer.
And CHAMPAGNES of all brands.

## WASHOE

Stock Exchange, N. E. cox.!Montgomery \& Merchant sta., SAN FRANCISCO.
L. W. NFWELL \& CO.,

Buy and soll Washoe, Esmeralda and other Miniog Stocks and Securities.

PHILLADELPHIA BREWERT, Second St, corner of Folsom, San Frascisco
Hœlscher, \& Wieland Proprietors.
Thankful for past patronage to a discriminating ment our many frjends and patrons that the above well known Browery has been permanently located in our new premises, on second street-the former resi-
dence of Capt. Folsom where we sball endeavor to con tinue in furnishing our numerous patrons with the beat article of "Bier." We shall strive to perpetuato the
good reputation for promptitude and the faithful exeeugood reputation for promptitude and the faithful exeeu
tfon ot orders as heretofore, and thereby ncreasec ou tion ot orders as heretofore, and thereby increasec our

FULTON FOUNDRY \& IRON WORKS hinckley \& co.,
MANUFACTURERS OF STEAM ENGINES,
Quartz, Frour and Saw Mills; Cast Iron
and all kinds of Machinery

## Mos. 47 \& 49 First Street,

Between Market and Mission, San Francisco.
ALL kinds of Yron and Brass Castings furnished Ihort notice. Every style of finishing to tron when cast its various forms.
D. B. Hinckley, Wm. E. Worth. Wm A. Field

## DONAHUE'S

Union Iron and Brass Foundry,
Corner of First and Mossion Streems, San Francisco.
The Firgt Established in the State.

## M ANUFACTURE STEAMENGives

 prices. Have now the largest aud best assortment Gear and Machinery Patterns in the State, a list of
which will be forwarded to sayone desiring it, free of

## LEWIS COFFEY AND RISDON,

 STEAM BULLER AND SHEET TRONThe only exclusively Boiler Making Establishment on
the Pacific Coast Owned and conducted by Practical the Pacific Coast Owned and Gonducted by Practian
Boiler Mazers. All orders for Now Work, the repairing Boiler Makers. All orders for New Work, the repairing
of Old Work, executed as ordered, and warranted 10 quality.
Old Stand, corner Bush and Market Streets. LEWIS Oposite Orie

PALMER, HANSCOMB \& CO;
GOLDEN STATE FOUNDRY
AND MACHINE WORKS.
First Street, near Nariket, san Franciseo,
$\mathrm{R}^{\text {ESPECTFULIY SOLICTTS ORDERS for all kinds of }}$
 Pease send Pians and speciicications.
Having tho most complete arrangements and appoint Castiags and Machinery on this Cnast.
San Francisco, November 29, 1862.
GREAT REDUCTION IN PRICES.
STANFORD BROTHERS,
121, 123 and 125 California Street,
Keep the Largest Slock of all Kinds of
Lamp Stock
And will Sell cheaper than
Lamps, Chimneys,
Wicks, Camphene,
Burning Fluid,
Alcohol, Coal Oil
Turpentine, Kerosene OIL,
COMET ILLUMI「ATING OLL,
Sperk Oif, Lakd Oil,
Machinery Or,
Rape Seed Oin,
China Not 0if,
Polar Om
Linsebs Ori, Raw and Boiled,
Sharr's Ou,
Neat's Foor Oil,
Tanners Of, Etc.
Our customers in particular, and the country trade gen
erally, are requested to ascertain our prices before purchasing from traveliog agenta, as wo wil sell at less

## Holiday Presents!

 INW ATCHES,
DLAMONDS
JEWELRY AND
SILVER WARE

## AT

## BRAVERIMAN \& LEVY'S,

621 Wrsnington Street,
We cald the attention of our frienos and JEWELRE AND SILVER WARE,
Of the latest and Most Fushionable styles, which we
have received by the last Steamer. ALso,
FRENCH CLOCKS , AND
PRECIOUS STONES, Which we are selling, SET or UNSET, at the very LOWEST PRICES.

BRAVERMAN \& LEvY,
Dec 29 1m No. 621 Washington S'reet,
Facing Maguire's Opera House

LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Having been connected with the public work
of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO

## STATE LOCATING AGENT.

600,000 ACRES OF STATE SCHOOT LANDS,
At the low price of $\$ 1,25$ per acre.
Terms-Twenty per cent in cash and the balanc OFFICE: Second Hoor of Express Building, N. E. oor er of Monigomery and California atreets. ©cc.3m

## Agency For Patents.

THE UNDERSIGNED baving been long establushed in 1 the Patent Agency Business, and having favorable at the Patent 0 fice in Washington, offer their services for the securing of Caveats and Patents aliso, will at-
ten to the sales of Patent Rights, and to all matters ten to the sales of Patent Rights,
counected with patented inveotions.
patented inved tinns. TIFFANY,
OTHER, 410 Mont omery street.
CEARLESS R. bond, (Late City and County Assessor
REALESTATE AGENT,
No. 410 Montgomery street, San Francisco
REAL ESTATE PURCHASED AND SOLD, AND LOANS negothated.

## READ THIS!

C $\begin{aligned} & \text { OAL OIL } \\ & \text { while Mr. Browater was engaged in the Suming }\end{aligned}$ Street House in pouring coal oil from one can to another his wife imprudently approached with a lighted candle and the uil exploded. Mrs. Brewster's arms were badly
burned, as were also the husband's bauds.
Huwerer,
 he succeedsd in masteriag ite hamen, und preve
worse consequences.-[Eveuing Bulletin, Aug. 4.

## THEN THIS!

## Comet Illumitating Oil !

manufactured expressiy for Stanford Bro.
Brand of Kerosene
Ts warraoted free from Camphene, Petroleum, or any
other explosive material, and is the
BEST FAMIIY OIL IN THE MARKET. STANFORD BROTHERS,

Nos. 121, 128 and 125 Califr"ain street.
For Sale Cheap!
A horizontal steami engine of A.Horse Power, Flue Hoiler, in excellent order,
capable of driving a ten stamp mill, for sale at balf its origival cost. Apply to

OLJUS SILVERSMTHE,
Federal Building, cor. Battery and Wasbingtint $\begin{aligned} & \text { Roona, No. } 23 .\end{aligned}$
W. T. \& J. GARRATTT, Gity Brass and Bell Founders
Cor. First \& Market stg, San Francisco.
$\mathbf{B}^{\text {ABBET METAL CASTNNGS, FIRE FNGINES, FORCE }}$ orn and Hand Bells and Gonga, Hose aud all other joiuts, Gaugecocks, Cylinder cocks. Oit Globes, Stenm Whistles,
HYORAULIC PIPES abt NOZZJ.ES for MINING PURCOUPL, Iron rearn pipe furnished with fittings, \&ic, ratt's Patent Improved Journal Metal.

> F. G. BEPLER,

Practical Coppersmith No. 118 (Old No. 29) Ensh street,
Between Sansome and Battery, Say Frascisco.
Whilst thankful for the former confidence bestowed upon me, I desire to say that I am ready to make and epair with cheapness aud dispatch everything io my line of business ; especially all kinds of apparatus used in
Breweries and Distilleries; also, all such as are use where steam, spirits, or pumps of any kind be required Also, Kitchen utensils for Hotels, Restaurants and pri vate houses. Baking apparatus for Bakers and Confec dll orders from the country promptly attended

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek, san fbancisco.

CLEAR GOLD BEARING SUL.PHURETS WORKED AT ical process. Yield of Sulphurets from 30 to 60 per cent bigher than the BEST AMAALGAMATION PROCLSS. mar Apparatus for separating Sulphurets set up by ex
perienced hands at a cost of $\$ 00$ to $\$ 100$, if desired by mill owners.

SQUARZA'S PO
home mantractory.
Wrolkenle and retail,
No. 44 Leldesiorfi St. mear Smeramento
Branch at 406 Mootgomery street. my30
JULIUS SILVERSMTH,
Commissioner for Nevada Territory,
office, in late state capitol,
Corner of Battery ${ }_{\text {Room }}^{23}$, Washingto stairs.
$\mathrm{W}^{\mathrm{E}}$ Wouth prapgirivi your rou frose Who have busiiness relationswith the above namuiring the official action of a Commissioner-such as he drawing up of affidavits, acknowledgments, the taking of testimony, ote.

JAMES PHELAN, (Lhte J. \& M. Philan,
IMPORTER AND JOBBER,
Wines, Liquors, Etcy Etcy
Nos. 616 \& 618 Front street,
Between Jackson and Pacidic Streets,
San Francosco.
All Goods Guaranteed. Orders Solicited TERMS LIBERAL.

Jan. 1-tf.
THEODOR KALLENBERG,

## Maker of Models

 FOR INVENTORS.M ACEINES, MATREMATICAL, Optical and PhilosophVI ical Instruments, Scales, Weights, etc.; Stee Repairing of Machinery promptly attended to. No. 4 Sansome street, corner Market, au7.3m)

## DEVOE \& COS.'

STEAM ENGINE MACHINE WORKS,

LL KINDS OF MACFINERY, SUCH AS STEAM EN.
AINES, SAW MIMLIIIrons, Flour Mills, Quartz Mills
etc., etc., made to order and repaired.
ALSO,
LACRSMITHING, TURNING, FINISHING, PLAIING,
AGRICDLTURAL MACHINERY made and repaired.
AQ Duplicate parth of Thareshing and Reaping Machines and Threshing
on the most reasonable terms.
the most reasonable terms. Bonlerg constantly on
and, and for salecheap. Screw-Cutting and Turning

# VOL. VI. S.IN FRRINOSCO, MONDAY, JANUARY 12. $1863 . \quad$ NO. 11. 

An Imprtazt Mani uy Clis Settlad.
A h ary mining caso which for the year past, has closell from work several of the moit importa $t$ mining operations in Giass Valley. has recently been amically settled withont recourse to the tedious and experisive proceses of law. The suit was brought hy the Mount Hope Company, of New York (ity. aguinst Chavanne \& C'u. of dirass Valleybeinge. we believe, a question of title. An injunction was laid upm the opeations of Chatame de ('u., "hich also harl the wfeet of closin: the eatensive upreations of Messers What if ('o., seadidn is ('0), aml others, therehy s.minaly depmesibs the general industrial pasuition of the thiving mining community in which these worke are lucated. We emmatulate all patios concerned in theirfortunate deliverume from an enbarrassme t more provoling than serions. We leam from the Niffinmel that the citizons of Graes Vallyy were quite julilimt over the happy termination of the matter, as well they might he.

## NEW PROCESS FOR WOREING QUARTZ.

We have seen the drawings of a new machi- e for extracting gold and other precius inetals from its matrix, which wa patented about two years nero, amd since which time the patentee has been diligently engraged in perfecting and reducing the same to practice. The machiue has be a put to prac ical work at one of the mills on C'ul. F'vemont's Mariposa es ate, where it has reduced quartz $f$ om seremal diflerent veins, with the most complete and uniform success gaining more than one hundred per cent over the best apparatus heretofure employed there, at ercy trial upon poor gualities of rock. The parenter is now in this city busily engaged in erecting one of his machines which will he reaty for operation in a short time. Due notice of its time of starting will be given and the public and all inte ested will be invited th examine the machme, and witness its working. No chemica's are empluyed in the proce.s. which is simple and cheap. The inventor is a gentlemen of hiph scientifie and practical a:tainments, and, from what we have seen and learned, we are inclin:d to the opinion that the invention will prore a most complete success. At the proper time we shall give a full illustrated description of the same.

Tine Eenness P'ass is reported iu fine condition for trav eling. Stations have been locatel at every three miles on the snow belt, and whenever a storm commences ox-teams are immediately sent out and the track kept constantly beat en down, Stages ran daily over this route.

Foos aresometimes so thick in I.ondon that the gas has to be lighted io the streets as well as houses. A year ago last winter they were thus lighted on several occasions, dur-
the entire day.


WHEEELR'S PATENT SEPARATOR.
A represents a cup on the top of a hollow shaft for the admision of water.
$B$ i the driving and luose pulley.
$\mathrm{C}^{\prime}$ is the horizontal driving shaft.
I) is the driving gear.

E is the beam arross the top of the machine which supports the gearing.
F is the upright halluw shart which passes through the hollow journal on the erear wheel D , and is driven by a 'feather" rivited on the ondeide of the shaft.
G i G G represent four hollow arms attached to the upright shaft $F$. These arns are perforated on the under side with smatl holes through which the water is introduced in o the pulp, when dilutiug it.
H If II H repasent the mullers attached to the hollow arms, which rub on the bottom of the Separator, for collecting the amalgam and quicksilver into the bowl M, in the centre; the bottom of the Soparator being slightly cuncave. I is the side of the Sepamar.
Ji the tube from the bow! M. through which the surplus quicksilver passes ont into a dish, as fast as it accumulates in ihe Separator. In the lower part of the tnbe a cook is from the bowl M in the proces of "cleaning up.
$K$ is a forked 'ever which is used to raise the shaft $F$, with the arms $G$ G G G. when the machine is stupper; this prerentiug them from breoming fastened by the ore in the machine settling around them.
L. is a pipe and cuck for introlucing water throngh the hollow shaft $F$, and the arms $\mathbf{C} G \in G$ into the pulp for the

Gov ruor Stanfort on Tazing the Mines.
Grov. Stanfurt, in his late Message, makes the following practical and selusi le romarks on the entiject of the propused laxat on of the mines:-
The racstion of twing mining clains by the fieneral twoumment, after a ong slumber, se wis to be arain revired. The agitation of this su ject I cannot but regard as extrem ly impolitic. In a rast majurity of claims it is impussilile tor extimate their value above what thay may afford to the labores. from day "o diy. and with most of the balance th re can be no a certained 1 ermanem. cy or reliableness of valu - upun which all assessmen could be male with cunfidence or with satisfaction. A tix mpon these clains can never he had that would be ju till its burde s or equituble in its results. When the salacity and toil, tha anxirty amd patience, of the miner are rewarled will success the results of that s ccess, become the subject of taxation ami the sutuce of reve ne. 'There can be question that the perpie of the Coited States have reaped : greater harvest. of riches from our mines, under the libe al policy of rise Go ernment hithert') pursued, thais they wo uhd have donehad the discovery of our mineral wealth been immediately followed by Federal burdens, which mut of necessity, have been unergually imposel. It is a woll known fact, that the yield of our mines finds an alnost inmediate distribution among our people, a fact that tends as much to strengthen the Gevcrmment as though that yield went directly to bel coffers. It is also well known, that while their rearly product is now equal to what it erer wa, and while other interests and other communities are, throgels this influence, inerasing rapidly in wealth, the mising communities do not adrance-in fact, it is a question if they do not retrograde. year by year.
Is it wrll, then, to place any discoumpoment upon an ininterest of such vast importance? Shond it not rath $r$ be carefully fostered and $\mathbf{j}$ diciously enconroged
Improvements above a certain amount upon mining claims, might, very justly, be made the sulject of taxation with every other species of property which is created ly wealh, ind stry, or skill; but if the General Government shall determine to change her policy as to oir mines, and must have rerenue direct from them it were better to dispose of the lands upon which they are found, in small quantities, having: a just reard to the acquired interests existmg under the past policy of the Government rrlutive to them. I can see no good reason why the Governm at should retain to her use mineral lauds more than agricultural lands for both must heequally developed by the industry of indli itmals, and both, without that industry, would be valueless to a natien.

*     *         * Thes bject is one of impurtanes, hat I cannot here duscuss it to the extent which it deserves. It is a good $r_{1}$ le, however, "to let well enongh alone," a d is seldom departed from with advantagre.


## MINING NOTABILIA.

Esmeralda Mines-Great activity appears to be manifested in working some ot the principal mines in Esmeralda The Wide West, and Pride of Utah are especially mentioned. We see it stated that still another lot of rery rich ore from the former mine is about to be shipped to this city to be worked, which it is confidently expected will yield $\$ 100$ to the ton! Already four hundred tons of rock are oat, and this, with the amount to be taken out duriug the winter, will keep four mills constantly at work till spring. A late vamber of the Star gives a lengthy description of a new quartz mill recently constructed at Aurora by John $\dot{\mathrm{D}}$. Winters. which will cost in the neighborhood of $\$ 90,000$.

Ilumbondt.-Extraragant reports are current of a nen Silver mine recently discorered near Fort Clumehill, and known as the Blue Iea 1. The mine is owned by a company of Germans. and is said to prodnce ore far superior to anything erer found in the Ophir or Mexican mine. Assayers and other competent judges of ores have declared this to be a fact-so it is said. It is more than probable that the country may produce a rein as rich, or even richer than the Ophir; and it is not at all inprobable that the industrious Teutons aforesaid may bave stumbled upou it.

A correspoudent of the Marysville Appeal says that of the 6,000 claims th.t are recorded in this Distr"ct, the Wide West, Anteope, Pride of Utah, and Esmeralda take the lead-not because they produce better payiug ore, but that many ot er mines which prospect well and show• well defined ledges have no moneyed managers, and have to wait till some men of means and business capacitytake hold of those rieh but neglected silrer deposits.

Great complaint is made of a lack of suitable machi ery in that district, and the writer above alluded to thinks any persou will do well who will introduce some improvement in that particular.

The Pride of the Aatelope. Gpn. Jackson and Mount Broley are tur.ing out rich ore. They were located some two jears ago, but had to keep the native silver till touched by the magic hands of San Francisco speculators. The Wide West mill will be completed in about a month, nnd thus afford a better oppurtunity to those who cannot bear the expense of seuding th ir rock to San Francisco for assay, to test the quality of their respective ledges.
The Territorial Enterprise learns from a gentleman direct from the Fumboldt, that a rery rich $s$ lver ledge was discovered about a month since iu the Buena Tista District, the croppings from which assay $\$ 1,600-1$ t is called the Sargent ledge.

The Monitor, another new discovery is said to be proving :itself exceedinglyrich. Business in Mumboldt is slacking up considerably since Tinter set in. John O. Fail's mill at Buena Tista was tu hare gone into operation a week ago -Saturday on some choice rock from the Mars and Mational :leads.

Tirgisla City. A recent run of the Central Mill in Tir gina City produced one thousand pounds of bullion. Each - ounce of this bullion is worth $\$ 250$, or $\$ 7.500$ for the run - of twen'r-four hours. 'Thissesult was obtained from Gould \& Curry ore.

A thorough test of the Whitman coal is now being made -at Satro's mill at Day on. Cons derable improvements are also going ou there for the health and accommodotion of the hands.
A. Wise Precattion:-Mr. Almarin B. Paul has taken the precantion to put in a large flume near his big mill. some four or fire feet in width. by tro and a half or three feet in height, and placed in such a position as to eary all the water of the ravine around the mill. All who were in the Torritory last Winter will adnit the risdom of this precaution. There are other places along the canon, says the Enterprïse, where flumes should be built, otherwise, property may be damaged.

Tife Blochade.-Up to the first of December 540 ressels, endearoring to run the blockades, had been captured by the Federal cruisers. Their cargoes alone are valued at $\$ 40$,coo,000.

Gons.-The number of Revolutionary Soldiers on the ion list, Jamuary 30th, 1862, was only 30.

Oxe Year'a Treasure Exports.-The shipments of treasure from San Francizco, during the year just closed, were as follows:
To New Tork
"a Englaud.
"
$\$ 26,194,03493$
12,950,139 61
2,660,755 29 17.91600
" Japar.
Manilla. 65,651 64 12110 62.41400 $434,507 \quad 79$
$3000 \quad 00$ 3,00000
10,00000 10,000
00 188,221 71
$\$ 42,561,761 \quad 07$
Academi of Natiral Sciexces.-The following named gentlemen have been elected officers of the California Academy of Natural Sciences for the ensuing year: President, Colonel Leander Ransom ; First Tice President, Dr. J. N. Eckel; Second Vice President, Dr. J. B. Trask; Corresponding Secretary, Dr. W'm. O. Ayers; Recording Secretary, Professor W. H. Brewer ; Treasure, William Heffley ; Librarian, Professor T. D. Whitney. Curators-On Mineralogy, Gideon F. Moore ; on Botany, Dr. A. Kellogg ; on Paleontology, M.S bb : on Concholugy, Dr. J. S. Cooper ; on Entinulo: y, Dr. If. Behr.
More Copprr - The Calaveras C'lirunicle. says that a new lead of copper has recently been struck near Campo Seco, on ground belonging to Mr. Cbamberlain. Many rich veins of copper are already known th exist, several of which are now being worked in the vicinity of this discovery, and expectations are collfident that the raising and shipping of copper ore will soon render Campo Seco ole of the most flourishing mining camps in that region.
Another.-A new Copper mine has recently been struck dear Hog Hill, about four miles from Copperopolis. It was discorered by Capt. Nulty \& Co. It is a rich rein of sulphuret of copper and, it is said, the lucky finders have refused $\$ 150,000$ fur their discovery.
Copper Sifock.-One share in the Consolidated Copper Mining Co. was sold yesterday fur $\$ 100$. The company was organiz ed some two weeks ago, consisting of thirty shares, each representing $10 n$ feet on the ledge, and the stockh.lders were at no other expense except to stake out and record the claims. The stock may therefore be said to have advanced from nothing to $\$ 100 \mathrm{u}$ slare. [Aerala Democrat, Jcn2. $3 d$.

Tife Acton Copper Mine.- This mine, to which we aluded last week, has made its October report, which shows an arerage jield of 15 per cent.-a gain of 3 per cent. on its previous average. It is located in Canada aboot 50 miles from Montreal, and has recently been purchased by a Comspany of Boston capitalists. The ore is shipped to Boston via Portland, for working. The yield for October was 388 tons of copper. About 250 men are emplojed at the mine.
Tife Ulistere (N. T.) Lead Mine, recently discovered, had been opened, at last acconnts, only ten feet deep; yet it is thought by experienced miners that the developments already made are such as to marrant the couclusion that it will prove the most extensive and raluable lead mine in the world. The ore is of fine qualitr, and the facilities for working the mine and transporting the mineral to a market are rery superior.
Coal in Vrctoria.-A wealthy English Company has sent out an experienced mining and civil engineer to ex plore the island for coal. Should it be found of proper quality and quantity, the Company will immediately inrest a large amount of capital in the enterprise. The engine.rhas alleady arrived at Victoria.

Another Anxiety--British capitalists express greatanxiety in consequence of the rapid drain of specie from England to India. The pasm nits for Indian cotton are becunins rery heary, the last steamer for Bombay having taken out about $\$ 5,000,000$-the largest anount ever dispatched to one port, although an equal sum has been sent befure to the East in a single ressel for distribution among several mar-

Subscribe. - Are you a miner and not a subzeriber to the Minting axd Scientinic Pres? If so, you are an annual loser of mauy times the price of a year's sulbeription, particululy if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bouglit from the shelres of any boukstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so and you desire to send important information and raluable reading matter, you can find no pap $r$ that will be read with so much eagerness by them, or one that will conrey to them so full an account of the real industry of the country as the Mining and Scientific Preses. We invite all to send us their names aud four ctollars, or two dollar: fur six months, and become patrons of the only misisg p: per printed on the Pa cific coast. Those who receive a raper with this paragraph marked may understand that it is spnt to them for examimation, and with the hope that it may so for meet with their approval as to $w$ rrant their subscribing for it at once. It is not, our usual castom to receise a enbecriber for less than six months; but inasmuch as we are ansious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the rece'pt of one dullar, in coin or stamps. It is vur helief that no one will wish to discontne the paper after being a constant reader of it for even that short perion.

Coral al mie Farallones.-Coral was discovered a few days since on the Farallones, by a party connected with the Coast Survey. The color is red, and the branches are rather coarse in form and size. It was in the progress of formation. for the coral animals inside were still alive. Sive coral. it is said is not found so far north in any other part of the world by several hundred miles. Similar coral has been found in Mouterey Bay.

Novef. Invention.-A Felderal army officer has invented a nethod of disabling artillery when it becomes necessary to abandon it to the eneny, which is said to be most effectual, and most entirely surerzedes the present method of "spiking." Any effort on the part of the enemy to remove the disabled instrument will instantly burst the gun, and scatter destruction among all who may be tear at the time. such an invention must give the party holding it quite an advantage over his upponent, so long as the secret is liept within the knowledge of ore party only.

Land Monitors.-Mr. Redstone of Indianapolis proposes to build for Govermment nine "Land Monitors," or engines of war, to cost $\$ 900$ a piece, to weigh 1,800 pounds each, 25 horse engine, and all, with coal, water, ammunition, knives, d.c., iucluled in the above weight. Each to be handled by two men; to discharge from each 10,000 shots in half an hour ; to be capable of rumning 20 miles an hour over any grade less than 45 degrees; to be perfectly managealile in turuing, climbing or descending; to clear more obstructions from artillery roads than 500 men; to reap the rebels clear ly divisions; to resist canister, grape, and small shot.
Ratlioads in the South.-The want of machine shops to replace rolling stock along the Sonthern railroads as fast as it is woun out and disabled is beginning to be serious'y felt. The tracks are kept in repair by the rails which have been taken up along the horder and carried South. What few repair shops they have are kept constantly at work and mechanics in this branch of business are highly prized. If the war continues much longer a majority of the Sou bern railroads must stop running entirely.

We would call the attention of our readers to the Stock Report which we gire from week to week in the columns of the $P$ ress. This report is very full and carefully made up from the most authentic sourc s. embracing all attainable transactions both in this city and in Wrashoe. Our report, for this city, embraces a fall statement of the sales at the Stock Board-each day's operations being presented in a tabular form. We also re-prodnce the substance of the several Mining Circulars isened in this city. In order to give each weeks's transactions, full and complete, re have clianged our publication day from Saturday to Monday We istond to make each number of the Press a full epitome of the mining intelligence of the previous week, and udd thereto such matt rs of general interest and information as shall be thought useful and advantageous to the miner, and the mechanic.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.


 oflice or. fine and Montrumerysts.
Au assemsment of si3, per :hare was levied Jau 6, payable inmediately, at office, No. 112 Muntemmery street.

Juna ('apper Mining ('omplens.-The anmal meeting of


Idwe (bak Coppler 'oo-Whe Amanal Meotimg of Stock-









Nima I'rintas M. ('11.-In assessment of \$10 prer share


 Julder: of this ('u, will be hedd at Olfice, Fİ, Montgonsery -1. J.113. 13.


Th. Marlisum (i. \& S. M. ('u. adorrtise names of parties
 strek will he suld the the 29h day of J ant, unlese said assess ments are previously paid.
Franen- 1 moricano A. M. (o,-The following persons were clected ulfieros at the meeting of trnstees. Dec. 26thChat. F , diatan, Pres dent and A. S. (ivald, sporetroy. The aflice of this C'umpany has be n removed to No. 523. Clay struet, Ruom No. 2.

Siare Novalas s. XI. Cu.-The annual meeting or the elec tin: of Trusters will be hed at office $\mathbb{N} \jmath .40$, Montgumery Suret. Jun. 12th.
Lacmpe Mining fo--The Anmal Meeting for the election of Trustees will be leeld at Ollice 11t, Battery St., Jin 12th.
(Contral Silver Mining Co.-The Anmal Mreting for the der tion of 'Trmoters will be held Jan. 13, at Oinice, No. 71? Monlzomery street.
 hinlam's will be sell at auction for usseg sments, at No. 400 Montromery steet, ou $J_{i n} 27$.
Dhsurt Mining Co.-Shares of Jelinguent stockholders will hesuld at anction, for assessn'uts, at Nu. 400, Munt gomery street, Jun. 27
Wide West Mining Co.-The Fecretary of this Company publishes an important notice to Stackhulders, in the daily propers.
Rwore River Mining Co. - Ren cents per share has been hevied upon the capital Stsck of this Cumpany, payable Jan. $1+$ th.

San Francisen S. M. Co. have laid an assessment of $\$ 25$ per share, a ayable on or before Jan. 1st, 1863.
Parific (Quicksilver Mining Co.-Assessment No 3, of \$1 per share was levied, Dec. 22, payible immediately.
Keyst ne Copper Mining Co, advertise for preposals to purchase or treat $3 d$ quality copper ore. Proposals received till fan. 15th.

Mammoth Ledge Mining Co. givo notice of an assessment levied and payable on or before Jan. 13th. Also that the first annual lleeting for the election of Trustees will be beld at office, Jan. 1 Tth

Hale \& Norcross s. M. Co have levied an assessment
of sioper share payable on or befure Jan. 26th.
Charifa Cliny Mining Con-An assesment of $\$ 150$ per shure was levied on the stock of this comnany. Bee. 14ths 1852 , payalle ou or before January 14th, 1863, at office, 338 Montg'omery St.

Live, Oak Copper Mining Co.- Office, Montgomery Block - An assessnimut of thi ty cents per share was levied, Dec 1st, 1862 , payable in thirty days.
Nortit Potost Shivel Mining Co.-An assessment of four dollars per share was levied on this Company, Dec. 11 1862, pa able on or before January 16 th, 1863, at oflice Cor, Battery \& Washi gton Sts.
Meredifi Goid \& Sulver Mining Co.-An assessment of two aml a half dollars per share (five doilars per fo $t$ ) was levied by his Compiny. Dec. 11th, payable immediately, at office, 712 Montgomery St.

Buthon G. \& S. M. Co.- The Stockholders are notified
that they will heur something to theeir adrantage by cal ing at the office of the Company, cor. Piue and Muingomery ls.
Sumtos (3. \& S. M. Co, -An as essment of two dollars per slare was linied Nuv. 25. payalle on or before Ihee. $30 . \mathrm{h}$, 18tiz, at oflice S22 Montganery Ait.
 lars pur : hate was leviei, Nov. 29th, [ayable on or b. fore Jan. 1st, 1863 , at offiee 502 Mor fganciy St.

Jimset (f. \& S. M. Co.-An aspesment of twenty-fire econts per share was levied, Nov., 21 st and is nuw due, aod Mayalh at uftice 320 Clay sit.
Fibmad (i. d. N M. (on.-An asspsement of 25 cents per share was levied, Xor: 2lst, and is now due at office 326 Clayst.
lownis (i. if N, M. Cor-An as essent of 25 cents per share wns levided, Nov. 21st, and is now due at clice No. 320 ( lay = t.

Fil Jonamin fiss. M. ('o.-An as essment of one dul-I-r pre share was levied, Wec. 1st, and payable at office, on N. E. cor. of ('a ifumia and Montgome y ste., or to simperinterncont il Vi ginia ("ity.
Another asecsment of the dullar per share was levied Dec. 2!. payahte as above.
lowi Mixisg ('o.-An assessment of Four Dollars per Share was levied, Dec. 4th. payable at office $52 \%$ Montgonery St. an, or before dan. 3d, 1863.
Josephine Mrara Co.--An assessment af tyodollars per share was levied, Nov. 19th, and is now due and pajable at office No. 21 Stephenson House.
 share was levied, Nov. 17 th , payable with ${ }^{\circ} \mathrm{n} 30 \mathrm{day}^{\prime}$, at uffie 个12 Montermery St.
Pliwhey Mininc: C'O.-An assessment of 50 cents per slare was levied, Nov. 15th, payable at once, at office 204 Frunt st.
Ambrican Qutheshefer Mining Co.-Au assessment of one dullar pur share was levied, Dec. $16 t h$, payable at Com1rany's Office, in J'etaluma, within 30 days-At the expiration of wl ich time delinguent stock will be sold.
Napoleon Coppler Mining Co.-The first a nual meeting of this ('ompany will he held at office $N$ '. F. corner of Sacramento and Montromery is s., on Monday, Jauary 12 th 1863, at 8 I'. M.

Burning Mriacow S. M. Co.-An assessment of Two Dolars , er thare was levied, Nc.v. 25, for the purposc of detraying expenses of steam pump and machinery now being arected to drain the mine. Prompt payme $t$ is requesten at the Company's ollice, cornen: of Mon gomery and Sackson Sis., to Jus. L’. Nuurse, Sec.

## WASHOE MINING NOTICES.

Baltic Mining Co-Notice is given of an adjoumed sale oflares in this Company, to take place on the ground, Jan. 31 st.
Progress G. \& S. M! Co.-An assessment of 20 cents per foot was levied, 1)ec. 27, 1862, payable furthwith
Sreesy (O. - TVashington Ledge. - An assessment 210,000 being 5 . 1.2 per foot-was levied on the stock this Comyany, Dec. 28, payable at the Secretary's Office. Medan Building
Miners' Mreting.-At a meeting of the shameholders of the Sipgel Mining Company, it was resolved that a meeting be called of all the miners of the Siegel Mining District, for the purpose of making laws ly which said Districe. may be governed, and that said meeting shall take place on the $15 t h$ day of January, 1862, in said Siegel District, in or near a certain place better designated as the Siegel Min ig Company's Cubin.
Caution.-D. M. Tyrell warns persons agaiust purchasing certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee - also 20 feet, standing in name of W. Williams. (See 'Territorial Inte prise.)
Ashland Co-TI. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the MossiCu.'s sround, from which the Ashla d Co. is furbidden to extract any valuable inetals.
Eldorado (f. \& s. M, Co.-An assessment of one dollar per share was levied, Ded. 31, 1862, payable, Jen. 22. 1863, to the Secre ary, at corner of Montgomery and California streets, or to the Superintendent at Virginia City,
La-Plata Oro Co.-Gold Hill District.-An assessment of two dullars per share was levied, Dee. 26, payable at once, at Office of the Sceretary, Court-house Building, Virginia City.
'T'exas Co.-Tennessee Ledge.-An assessment of 25 ets. per foot was levied, Dec. 22, payable ou or before Jan. 21 , 1863.

The Regular meeeting of the Company for election of officers. will be held at the Comet Saloon, Virginia City, on Saturday, Jan. 21
The North American Co., Gold Hill, will sell at auction,

Jin. 31, stock of sharcholders delingneut in payment of vesuments.
Grass Valley Co.-A meeting of this Co. will be held
the "Medun," is Virginia ('ity, on Thureday. Jan. 15.
Arhland G. ©.S. M. CU-An aseresme int of filly ceits per share was levind, 1he. 10, payable at the Gflice of M. J. l'ower, Sec., B. St.
Nubman siluer Minino Co.-An aseesement of One Dollar per share was levied, Nov. 19th. payahle an or before Dré 31st, to the Simemintendent in Yiminia ('ity, or at the ullice, No. fo, Montumery Etree, fan Francisco.
Dlaktio Ginte Mining Company, - An assesament of ten
 chice on C'Strect, Virginia City,
 Company have wrorgfily claimed and wolked their ground sitere July, 18c0.
I'riman fi. \& s. M. Co--An aseesment of Five Dollars ier the re was levod, Nov. פth, and motlar of 'Ten Hollas per =hare. Nus. 21, [ajable at cnce to the Eccoctary, R. J. Mi:chel.

Comedmia Tinarl asid Mining C'o.-An asecsement of Thirty-two Dollars per share was levied. Pec. Eth, Iagable immediately to the sicreary, Mantin White.

The Cumamy Rork ('o.. lymg nixt Wrat of the Tirginia Co claims have notified the Hazel Green, Tingley and If ach d. Paxton Companys that thry are tresepereing upol the Chimney Rock Co's grumud.
Li Chosee Mining Co-An a seesment of $\$ 125$ yer chare was levied, Dec. हth. I ayalle at cffece 73 C st ett, Virginia City
Hawk Iiye Gif,ter Minivg Co-An aescement of 25 cents per foot was lenicd. Iec. Gith, 1 agalle in.modiately to S. A. Krllogg. Sec. Guld Ihit'

Monecan Co, Cedar llill.-Anasecssmint of fifty centsper fout was levied. Iec. Eth, pajable forthwith, to the Eecretary at Virgiuia City.

Oriextal G. \& S. M. Co - The id asecsement off 15 cents per foot, was lev cil, Lec. 8th, and is 1 ayable at cffice, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTICES.

Tue 7exobu Lode Ccmpany, gire notice that hey claim a supmior title to the Johnson Co. cluming the same pry und, so far' as said localities couflict. 'I his grous is at Irtion of that now held by th:e Comrany kngun as the Wide. West Company. The notice is signd liy A. W addell, J. ('. Dorsey. \& P. Dors y and Jame Fiher.

## MINING AND SCIENTIFIC PRESS,

THE ONLE MINING, MEGHANICL AND SCIENTIEIG paper on this continent.
THIRD TEAR: vGALME VI-NEW ERRIE:
A 1 :ew whume of this extenswely circulated parer cmmmenerol Sept, 11 ,

 for its columens.
This paper is llevoted to the abwa rurnoses, together with the interesta.

 tor to spate no pilins or expense in makin
information to any paper yet published.

> The Mining Interest!

Will fincl it of grat walue, as it will contain all the news appertaining to. Miniup, the prices and sales of Mining siocke, new inveltions of Machucry to the Miner.

## The Inventor:

Whll find it an excellent medum for the purpose of bringing his invention, into notice, of ascertaining the progress of invelition in this and other enuntros, and also of recriviug any mformation that may be nevessiry:
in ohtuining his patent, the prepricon having had great cxperience as a l'atent Agrit, tngether with fiucilatios at Wuhhington that eantle him tp obr ain Pratents with "liypatch.
The Mechanic and Mrmufacturer:

Trill be greatly benefited by its perusal, as cach oumber will contan ser-

 shall continue to extract whatover mily be of bencefit or interest to our

## To Chemists, Architects, Millwrights and Ferrmer's!

 This, inurual will be invaluable. All new discoveries in Chemistry will bo-given, and a large amount of nformation of great serviee 10 Archutets aud



Termas.


- Five Copies for Six Months 88 .

Ten Copies for six Monthis, $\$ 16$.
Then Copies for Twolve Monthe, $\$ 30$.
Fifteen Conies for Twelve Monlus, $\$ \mathbf{\$ 4}$,
Fifteren Coniess for Twelve Monthes, $\$ 44$,
Twenty fopies for Twelve Minnths, $\$ 56$.
For nll clubs of Twenty and over, the yearly subscrintion is rnls \$9 \& specimen copices will be sent gratis to any part of the country.

## EWER \& SMITF, Publishers,

Room 24, (formerly) U. S Court Building, Corner of Wathingten and Bat-
?lining and Srirntifir 碃uss. W. B. EWER,

EDITOR.

## MONDAY

JANUARY 12, 1863.


## To Printers.

Av Interest in once of the mast frumshing and best paying Fonw-papor onkes ia th. $m$ iuntalus is antored for sate na ensy ferms. i rare op sorthnity is hereby present it to any pr'ster desirous of e tablivhing him; se!f in a goon basiness mone of the liealthist, most thriving and delight ful mouatais towns ha the statn, Fur further information enguire at his onfice.

## COPPER MIINING.

In an article under the abore head in our last issue, we stated that coper ores of less value than 20 per cent. were rogarded, in this market, as umprofitabie for shipment. We have since learned from ratios largely interestrd in copper mining, that contracts are now leing made for shipment of as low a grade as 12 per cent. One contract involving the delivery of sereral thonsand tous has recently been made in this city by the Napoleon Copper Miving Co.-based upon that per centage and upwards. According to the reports of competent judges, whose opinion are founded upon reliable assays, the general average of the unassayed ore, as it comes from the principal mines of Calareras, will excced the figure named ; rery little, if any being taken nut which falls below 8 , instead of 5 per cent. as we stated last week.

The oninion gencrally obtains that all below 20 per cent. is valueless in this market, and we had intended to show in the present issue, by reliable data, that such conld not be the fact The information furnished us, as above, reuder's such an exposition unnecossary, and we can now assure miners that they can obtain favorable advances in this city on ore rating as low as 12 per cent.

The contract of the Napoleon Co., of Calaveras County. is for a term of three years, the contractor, a large cap talist of New York, taking all ore from 12 per cent. upwards. The delivery is made at the ships tackle in this city, payable in gold cois, and the assay is to be made here. Shipping merchants 'here, amxious for returu fieights to New York, :are willing to advance say 50 per cent. on 15 per cent. ore, basing the price in the specie value in New York or Boston. The currency value is $\$ 5$ i5 to $\$ 6$, to the one per cent - of the assay which, on 15 per cent ore, is from $\$ 86$ to $\$ 90$ per ton. It is understood that these same parties have written to their correspondents East, for farther advices, a d that, in a short time they hope to be alile 10 advance on all ore assaying 10 per cent. and upwards. Our readers will recollect that Comrency now ates 35 pr reent less than Specie.

Joston, New York, and Swansea (Wales) are nuw competing for our ore. Baltimore will soon make a fourth bidder.

To show the profi able chara ter of copper mining we again refer to the Napoleon Company :-
Cost of taking ont one ton of 22 per cent ore... .$\$ 300$ .Sacking, teaming, freight, drayage, etc .1200 $\overline{\$ 15} 00$

## Sale of one ton of ore in San Fran. for gold \$66 00

 Net profit.85100
Again, the company above named hare been in operation only seventy duys; yet they hare erected stemm works, macline shops, houses for miners, superintendents' offices, etc. and all without lerying any assessment. The ore sold having paid all expenses, with the prospect of an early dividend.

According to present indications, copper reins are quite . Rs generally diffused throughout the momutains of California
as g ld bearing reins, and whereser found, the former are far more profitable and reliable than the latter.
When the sp cial attention of cap talists was first. directed to the Copper mines of Cornwall and Devon, it was the opinion of scieutific men and all those who examined into the matter, that the " lodes" as they werc called. existed only to a limited extent both in territury and numbers. Indeed it was not until the commencement of the present century that the contrary opinion began to prevail, and up to 182.5 only 188 companies were engaged in this business. This number had increased in 1855 ( 30 years afterward) to 633. This result, it should be remembered, is confined almost exclusively to a territory not much larger than the sinale County of Calareras and the yield from which, in enpper alone, exceeds at the present time over $\$ 5,000,000$ in value, anuually-and that too, derived from a class of ore that rates at the very low grad of ouly 614 per cent!
All knowu facts go to show that the copper mines of California are quite as reliable in thrie depth and extent as those of England. In the latter country numbers of copper mines are n w frorked to a deptlo of from 1,000 to $1, \overline{5} 00$ feet. and some have been traced, in their I near extent, five or six miles. The heaviest class of steam encines are em ployed in draining some of these mines. In the "Consolidated Mines," for example. thr e engines are employed for that sole purpose, the largest of which has a cylinder of 90 iuch s, inside diameter, with a troke of 9 feet 11 inches. It is rated at 310 -horse power. This mine alone, from 1815 to 1856 sielded conper to the value of nearly $\$ 15,000,000$.
From the above data, it will not require any very great stretch of the imagiation to place the value of the copper interest of California. within the next decade. nearly upon a par with that of gold at the preseut time. Within one year we shall probably be prepared to smelt our own ores and thius rastly increase the value to the state of a given sichld of re over that realizel? at present Smelting works will no doubt be erected, at convenient points for the delivery of ore and procurement of coal, as fust as the mines are dereloped. Statistics show that even with the large increase anticipated, there need be no fear that the supply will exceed the demand to a degree $\kappa$ hich will materially atfect the price. The consumption of copper is rapidly increasing, and the production has never yet been ergal to the demand. Eng luad, notwithstanding the constant and rapidly increasing yield of omr mines, is a large buyer. Her imports for 1851 were, in round numbers, 48,000 tons; in 1858 , the latest date we have at hand, they we e 66,000 -an increase of about tio per cent. in fonr years. Copper may henceforth be set down as one of the staple productions of C'aliforuia.

## MR. LATHAM' MINING BILL.

The Washington correspondent of the Alt $l_{\text {writes as }}$ follows in reference to the Mining Bill recently introduced into the Senate by Mr. Latham:
"The bill of Senator Lathrm, for the development of the mineral resonrces of Catifornia and the Terri opies, directs the Commissioner of the Land Office to continne his investigations in relation to mineral wealth of the country, by means of surveys, etc., and authorizes explorations. practical and scientfic experiments, the collection of specimens, new improrements iu assaying metals, experimental test of value, etc.
If the Commissioner is not more successful in collecting reliable data in the future, than, judging from his late r port, he has been in the past, the country will derive very little benefit from his "i ivestigations."

Quartz Reduction in Sin Fraypisco-The Pacific Metallurgical Works, in this city, dur ng the past week, have reducedtwo tons of ore from the claims of the Sacramento Company, ${ }^{n}$ Cedar Hill, Virginia City, the product of which was $\$ 1,11365$ in gold, and $\$ 405$ 个 is silver.

They also reduced two tons of rock from the Wide West lead. Esme alda, from which they took $\$ 1,900$ in gold and silver.

Parties interested in Washoe will find some pieces of rock, at the office of the Jewel Gold and Silver Mining Co, No. 612, Merch int street, which are worth looking at, and which the Secretary, Mr. Armstrong, will take lleasure iu

## Report of the Land Commissioner on the California Mines.

The report of the Land Commissioner to the Secretary of the Interior, so far as ic relates to the mosing interest of this Const, betrays a lamentable lack of iuformation in an Officer of the Government, whose duty it is to collect valuab'e information for his particular bureau, upon which Congress is expected to base legislative action. The Comin ssioner indulges in a class of estimates with regard to the mines, most extravagant, and solnuse as to be almost utterly without foundation; and upon such fancies praceeds to demonstrate that an inmense revente may be derived tberefromin aid of the National Treasury "This year," he says, they should yield $\$ 10,000,000$." After assuming that the mational debt, on the lst of July next will b: $\$ 788,000,000$, the Commissioner says :-

A tax of some 8 per ceut. on the whole yield of the mines would upon the maturity of a proper mining system, and when the same shall erentually go into full operation, pay off this interest. enable the fiovernment to reluce by at least two thirds the existing direct tax, and from the residue and imposts have an annual income sufficient to support the Government and provide a fund for the gradual extinction of the public debt ant restore the currency to a metalic basis."

The above estimates are based upon the supposition that the mines of the Pacific Coast will yield $\$ 100,000,000$ the present jear and that that sum will $s$ on increase $t$, three and fore times that amount! "The product of Salm n River Mines," he says "has been estimated at, $\$ 20,000,000$ for the present year"!!
Such ostimates, outside of the Secretary's otherwise valuable report, could scarcely be found in any other documents than those of the purest Munchausen school.

Anuther notable example of the mexcusable looseness of the Consmissioner's assumptions and estimates may be found in the following quotations from his Report:-
The nsual size of a quartz claim in the mining region is 100 feet on the line of the lode or rein, and 100 feet on ench side, equal to an area of 20,000 square feet: or, say, 1.200 chaims to the square mile. Alluw $t$ 'at obly one-bundredth part of the monntain surface is occupied by paying leads or veins, there will be space for $3,600,000$. But dovernor Erans of Colorado estimates the already discovered gold bearing recion in that. Terr tury as affording ample room fur $8,000,000$ claims, and states that new discove ies are daily increasing this area.
A glance at the map is sufficient to show that the mineral region of Colorado occupies less than one-sixth of the whole extent under consideration ; but assume it to be oneixth, there will be ample extent on this basis for 4.800 .000 clams. which, if worised, would give employment to 20.000,000 of men. Quartz that yields $\$ 12$ per ton will pay in farorable localities *** Some of the recent discoreries are estimated as high as $\$ 20,000$ per ton, but these have not yet been worked.
It seems scarcely possilile that such estimates and assumptions, as we have qquoted above could find their way into so grave a document as the Report of a leading Department of State. We must certainly suppose that the Honorible Commissioner could never have obtained his information from any member of the California Delegation in Congress. From our personyl knowledge of the watchfulness aud intelligence of our energetic mining member, Mr. Sargent, we feel quite confident that this report will he so theroughly "ventilated" on the flon of the House, that the members and their constituency will promptly abandon all hope (should any have bean engendered by the Commissioner's flourish over our fabulons wealth) of any suck relief from ge eral taxation, as is shadowed forth in the remarkable document under consideration.

The Commissioner gravely and anqualifiedly assumes that the yield of the current year will reach $\$ 100,000,000$. In another colum we have given an accurate report of the shipments of treasure for the year ending Jan. 1st, 1863, which foots up, all told, only $\$ 42,561,761$. This shipment, it should be recollected. has been made under the urinsual stimulus of an extraordinary demaud for gold at the East, and the existing apprehensions of serious business derangements, which have had a $t$ ndency to remove much timid capital, for foreign investment. 7 hare is not one particle of evidence which would lead to the probability of a single dollars increase of next year's sh pments, from this
cept the possible additional yield of one and perhaps ,wo million from Nevada Territory. The Secretarys estimate
for this year will be much too large if divided by two:
The estimate of $\$ 20.010,000$ for the "distant 'Territory of Washingtot" can ouly exci e a smile at the Hon. Seceetary's credulity. We hope for the credit of that official's julgment, the printer has accidentally affixed one cypher tou many-for $\$ 2,000,000$ will come very near the correct figure, for the yield of that tervitory.
The Commissioner's ideas with regard to the number and extent of the quartz mines, are even more extraordinary, than these in relation to the general yield of all the mines. Were we to give him fully ten years more in which to continue the development of the mines, it would even then be necessary to divide hisestimate biy as high a umbler as 12 or 15 to arrive at anything like the correct figures! The Commissioter procceds upon the assumption that "one-hundreth part of the mountain surface [of California] is occupied by paying leads or teins [of gold-hearing quartz.] Let us fiyure a little. "The mountuin region of the sitate" covers about 160,000 square miles. One-hundredth part of which is 1,650 equare miles. Now we presume no Californian, well posted in such information, would estimate the lincar extent of all the paying quartz veins of the State higher than 450 miles. Alluwing 100 tert in width to the claims, they would all occupy a space of only if square miles-or less than one twenty-first part of the estimate of the Commissioner.

The luyal citizens of California are perfectly willing to pay their full proportion of the taxes necessary to carry on the Government and the war. but they most earnestly protest against any extravagant estimate of the value or yield of our mines, for the mere purpose of fixing upon as an excessive rate of taxation, which can only result in retarding the de. velopment of our mineral wealth, and, to that extent, in cutting off the Government from that resource upon which, above all others, we norr rely to carry us through the commercial crisis necessarily consequent upon such a gigantic struggle as that in which we are now engaged.
No one at all acquainted with the mining interests of California would for a moment think it possible to collect a direct tax of eight per cent. upon the gross products of the mines. Such a collection, if it could be enforced at all, to any extent, would have the effect to decrease the yield of the mires at least 30 per cent., and put an almost complete stop to their further development. Not one half the mines of California, either placer or quartz, yield eight per cent. profit over the lowest rate of wages. Mining, in California taken collectively is the poorest paid labor in the State. The arerage returns for each day's mining Jabor performed in the State is less than $\$ 2$, on which a tar of eight per cent, at the enst of living would be absolutely ruinous. Fully one half of the mines would be abandoned, rather than pay the tax. Of course there are a few very rich mines, in nearly every locality, which are gielding enormous returns. The three per cent. income tax reaches all such, and the government and the country at large, derives important advantages from the values created by the circulation of the money taken out by the fortunate owners of such claims.
All intellirent persons, we belicve without exception, who have made themselves acquaiated with the mining interests of California by personal observation, are agreed in the opinion that no system of laws can be devised which will more rapidly develop the mines than that which nuw obtains. With regard to revenue, nuless Government despoils miners of their possessory interests, and sells the same, it cannot hope to realize much except from a limited portion of the best paying mines. The proportion of the mining yield which might thus be reached rould not much, if any, exceed one-fifth of the entire yield. The true and only practicable policy for Government to pursue is to be satisfied with the application of the increase tax to such mines as it will reach, and look for the chief benefit to be derived, to the commer cial advantages which will accrue from the increase of a substantial circulating medium. The gold which our miners are taking out is rapid'y made to create ralues which at once form permanent material for legitimatetaxation. Let Government have a care that it does not kill the goose that is laying its golden eggs with such promptness and regularity, as to make it the envy and astonishment of the world. We would close by referring the reader to the pertinent and practical remarks of Governor Stanford in his late message under the head of Mines and Mining.

Fimpranda.- Cash sales of several low priced Esmeralda stocks were made at one Broker's Office, in this city, on Friday last, to the amount of $\$ 22,000$ and cash paid down.
In the Boda Iistriet, situated eight miles west of Aurora City, the Buda Blaff Consolidated Gold and Silver Mining Company own 10 claims, representing 11,000 feet of ground.
They are taking out ore trom the New Mexican claims, which is raying sil 60 to the ton. The owners are F. If Becktil, John Bideman, Gov. Stanford and James Stark.

Wr would call the attention of Mine Owners to the advertisement in another column of a gentleman secking a position of Mining Euperintendent. Any party desiring a person to take charge of a Copper Mine will do well to avail themselves of this opportunity.

Gas Explosions.-Two private dwellings were recently destroyed, in England, by an explosion of gas. The gas escaped from a pipe beneath the floor, and although the smell of gas had, for son.e hours, warned the inmates of their danger, nothing was done about stopping the leak until the accident took place, which fortunately resulted in destruction of property only.
On Friday even ing, November 21st, an explosion, under very similar circumstances, took place, at Taylor's Saloon, corner of Broadway and Franklin streets, New York. People using gas should wateh and promptly stop any leakage, in their premises, else accident may bappen.

## Mining Stock Report.

REPORT UF SALES
At the San Francisco Mining Stock Board,
For the weck eading January 10,1863.


* 1 share to 10 inclues.

San Fruncisco, Juz. 12th, 166s.
stock remarks.
 past week, than tor any similar period during the Winter. A new class
of luyers has appeared in the Market. The cusourugng reports and regular returns from our leading mines is attracting bither a large amount of Fastern capital. The Trincipal purclases in the Ophir and Gould \& Curry Jurng the past week hnve been made on Xew York accoult.
Quite a sensation was created in minung circles on Weiluesday last in consequence of a displatel from ophir mine that a rich seam of ore had been
atruck in the lower gallery, which is being gun through the mine. The shike was made at a pociut about ejghty fect north of the Mexicau Mine. The effect has heent to gralually advance the Stock of that Company since
the reception of the dispatcl, from $\$ 2,080$ to $\$ 2,600$ per foot. Should the the reception of the dispat thi, from $\$ 2,050$ to $\$ 2,600$ per foot. Should the ble extent, farther and much targer adve: Lecs may be aulticipated. A divialend of $\$ 24$ per foot was declared on the 6th insh. Forty-three feet have changed liands during the week.
The Gould \& Curry is alco steadily improving closing the week at $\$ 200$ advance. A setlement was mand on Tuesdiy with rekard to the II8 feet atthe South end of the mine, in dispute with the Savage Compang. The G. $\&$ C. agree to pay for the same $\$ 24,000-$ hale down, halanee in 60 days.
Dividends for January on 220 feet have been sold at from 81 to 8212 z dollars per font. Sales or 131 feet are reported; buyers more plenty than sellers. The mill, whitu has been stopped for several days to fiuish up some part of the works, is abont ready io start again.
The Savage is still upvarud in is tendency-baring advanced $\$ 100$ the past every posible deyntch, and it is believed that within 60 deys, ore for
enulhing will begin to reach the surface. The developmants thus tar keem to lee entirely Rith-fuetory th hulders of stock very little of whell can be iblalthed at iressint quotntous- $\mathbf{\$ 7 6 5}$ to $\$ 800$ per fiot.
Chehlar is still bany ant, and chosed the week frim at $\$ 35$ advance.
Burzing Mo:chus, atands at about last quotitions. Luthationts aro given
 hany has got his hoistiug machinery it work.
sirern Nevida still cunthunes active at about last woeks quotations. A large business lus been done the past week, ns usual, in tha stegk. Con-

Wide Weet. Bividemils are expected frum this Company in nthout two mobths. The Stock closed this week at an advauce of $\$ 50$ un tast weel's quitations. Results from the working of the Cowpmoy's milh many to expectcd next werk.
Ant deppe hans unde an extraordinary per centage of adsauce. It closed on the 3.1 instantat $\$ 80$, and on the 10th han advanced to $\$ 152$ Real del Surte, which has remained quiet for sotme time at from $\begin{aligned} & \text { and } \\ & \text { to } \$ 20\end{aligned}$ bus al so tuken a start and ndwanced to \$ $\$$.
silver hill has also advanced $\$ 0$.

## transactions in shares.

Ophir-6 slaren at $\$ 2050$ per foot; 24 at $\$ 2,0-5 ; 36$ at $\$ 2,300 ; 60$ nl 80 100-42 ut $\$ 2,800$ : 24 at $\$ 9,500$ and 1296 at $\$ 2.550$. Gould is Curry-20 al $\$ 2,800 ; 26$ at $\$ 2,825 ; 16$ at $\$ 2,900$, Fctl, $1 \mathrm{st} ; 40$ at $\$ 2,900 ;$ \& at $\$ 3.000,1$ st February ; 40 at $\$ 3,000$.
Choollar- $\mathbf{0}$ ut $\$ 377$; $20 \mathrm{ut} \$ 37 \mathrm{o}$; 20 at $400 ; 40$ at $\$ 890 ; 20$ at $\$ 400 ; 28$ at $\$ 405$.
sav
s.

0 S765; 50 at $\$ 800 ; 20$ at $\$ 800$
Potosi-20 Alares al $\$ 110$.
Sierra Nevala-10 at $\$ 6 \cdot!=10$ at $\$ 63 ; 15$ at $\$ 61 ; 20$ at $\$ 64 ; 104 t$ \$70.
 at $\$ 65-40$ ut $\$ 10$, bo days.
Charles Cancy-10 at $\$ 19$.
Meredith- 32 shares at $\$ 22 ; 32$ at 2112 .
Central-60 at $\$ 1,700$ oul New York aceomet.
Hale \& Norcrus $5-20$ at $\$ 500 ; 13$ at 8525 ; 13 at $\$ 525 ; 5$ at $\$ 535$.
Iowa-10 at \$130; 10 at $\$ 1 \div \overline{0}$; 10 at $\$ 1: 0$.
Huzel Greeu-50 at \$3 $1 / 2 ; 20$ at $\$ 3 \%$.
Unuon-(Russ Distret.) 100 shares at $\$ 187 ; 60$ at $\$ 2 ; 100$ at $\$ 2 ; 05$ at $\$ 2$. Emikilda mistrict.
Wide West-40 shares at $\$ 300$; 100 at $\$ 300 ; 10$ at $\$ 325 ; 16$ at $\$ 320 ; 26$ at $\$ 3.0 ; 10$ nt $\$ 340 ; 10$ ut $\$ 367$ \% $2 ; 15$ at $\$ 355$.
Antelope-10 at $\$ 100 ; 10$ at $\$ 150 ; 10$ at $\$ 142$ 应; 10 at $\$ 155 ; 25$ at $\$ 130 ; 10$ at $\$ 145$; 10 nt $\$ 150$; 10 at $\$ 152 \frac{1}{2}$.
Main Esmeralda-15 at 50 dillars.
Renl del Moute-50 at 20 dallars.
Utah-20 at 40 dollare.
Filty feot of the J.nuary dividend of Gould \& Curry sold for \$\$1, por ft Ten feet \$82咨

* Quutations made at given rates por foot.


## Coso Stoclis.

The Josophine has veen luat little enquired for the past weok. It changed hands at the steck Board from 10 to 13 dollars,- Hulders asking $\$ 17$ to $\$ 20$ Coso-Not quotel, $\$ 25$ askod.
Willow springs-held at. $\$ 40$ sold at $\$ 10$.

## Mexicain Mines.

Mina Prieta finds no recent buyers, but is held at $\$ 140$.
Divs Pidre is quoted ut from 32 to $36 \frac{1}{2}$ dollars.

## WASHOE STOCK REPORT.

[Complemp frox the Dally Territorial Enterrase.]
Dee 20 h . Cnosiderable activity was noticei to-day. 25 fret in North America sold fur $\$ 5$ per foot. So fect of the Dunn Co. sold at $\$ 5$
Dec. 31st. Animation in Slocks still contivues. At no time within tho last six montha has there been greater activity in the market The majority of the Stock of the Lafiyette Co., Gold Hill District, bas recentiy passed into the hands of two or three San Francisco dealers-purchased at nominat rates. Goll Eill stocks generally in good request
Tweaty-five feet of Dunn sold at $\$ 5 ; 37$ feet of Union at $87 ; 5$ foct Buchavan at $\$ 30$ per foot-all in Gold Fill District. Inquiry for Potosi is made at $\$ 100$, but nune is olfered. El Dorado may be quoted at $\$ 03$; Birdsall at $\$ 17$; Uthhat $\$ 15$; Firriew at $\$ 00$ Zouave at $\$ 8$; Hazel Green at $\$ 450$, Sacramento at $\$ 40$; Durgau at $\$ 4$; United States at $\$ 800$ per quarter slare Cedar Hill Tumnel at $\$ 450$.
Jan. 2 n . The year begins with a gratify ing degree of aciivity, and a dearded disposition to iavest, by both home aud non-resident oprorators. 8 ft in Buchanan, Gold Eill, sold to-day, for 50 por foot. 10 ft , El Norado, a $\$ 70 ; 25$ Oriental at $\$ 4$; 10 ft Malison at $\$ 2.8$. Utah is reported at $\$ 46$
Jan. 3d. But little of note transpired. No changes noted of yesterday's quotations. The arguing of the Potosi-Chollar ease was creatiug some ininterest. Potosi still advancing aud firm at $\$ 125$.
The Enterprise thinks the favorable appearance of the Stock market, nt the present time, is a good augury of the future favorable offects of the Incorporation Law.

## HUMBOLDT STOCK.

Considerable Humboldt stock continues in market, but aside from the Mars, Cuba, Sheba, South Extension of the Shebn, and three or lour other claims, there is little or no inquiry in that direction. There is also a large quantity of Eagle and Silrer Monatain district stock, but eatirely withont quantry
buyers.
The following stocks, not enumerated above, are in the market in Virgin ia City, and held at the figures annexed :-
Santa Fe
Empire
Mcbes
Belvidore
Peytona
Durgan
ElDorado

## Wheeler's Amalgamator and Sopa-

On the first page of to-day's issue we give an illustration of a new machine, recently invented by Mr . Zenas Wheeler of this city, designed especially for separating and cullerting the amalgam from the ores of gold and silver, after the ores have been thorough'y rerluced by the most severe process of trit urati $n$ in the amalcamating pans represented on this page. The ma chine first above alluded to is calleda "Separator:" The amalgamating pans were first illustrated and described by us in our issue of December 29しh, 1862, and now reproduced on this page. They are fashioned, in their general construction, very much after the usual plan of this class of machines, "hen used with a steam chamber for the purpose of heating the pulp. Its internal arrangements present impurtant improvements over most cther pans that we have examined, and which are readily appareut to any practical miner who will carefully examine the illustrations herewith presented.
The separator is something entirely : ew and must commend itself to every ruartz miner. Tiferetofure the "cleaning up" has been made direct from the pan. which neccesearily cansed much deluy. and is, at best, but impertectly pertormed. One Separator is desigued to be used with two or three pans.

After the ore has been operated upon in the pans for a sufficient length of time to reduce it to an impalpable powder and thoronghly amalgamate all the mineral, the entire mass is drawn off into the Separatur The bottom of the pan is slightly concave, with a small bowllik depression in the center, and entirely below the reach of the stirrere. Into this bowl the amm lram, as fast as it settles, finds its way, and when once there, is at perfect rest until the macline is ceaned up. These machines have been for several months in use at $t^{\prime}$ e Zuphys Flat Alill, in Carson Falley, where both the Amalgamator and Separator hare proved themselves superior to any other apparatus in use there. BY this machine t'e babor of cleanibur up is greatly reduced and simplified. Bf the use of the Selarator, the pans are never required to be stopped except to le recharget or have the dies renerred.

Perhaps the best test of the ralne of these machines may be adduced from the fact that no perceptible loss of quicksilver has yet been noticed, from the working of this machine, which cannot be said of
any other in use. All mivers who hive examined these machines speak most for them. They may be seen in operation every day at the Mi ners Foundry, on First street in this city.

The issue of the Press containing the illustrated descrip tion of Wheeler's amalgamator having been exhausted, and having had numerous calls for the same which we have been unable to fill, we re-produce the jllustrations, to.day, in connection with the "separator," which appears upon our first page. See eritorial notice in another column.
The upper of the three accompaning engravings repr se ts a perspective riew of a new amalgamator recently patented by Mr. Zenas Wheeler, of this city, as it appeurs whell at trork.
The enzraving upon the left represents the amalgamator npened. In the bottom of the pan M are seen the dies L L $\mathrm{L} L \mathrm{~L}$. The inclin d spiral leiges K K on the side of the pan are desinned to create an upward current of the pulp by which it is forced again to the centre of the top of the wuller, and thence though a proper cpening, underneath the same, for re-grinding. This current is kept up. so long as the machinery is in motion, and by thus constantly chan-

ure are designed-the lower one to carry steam to the steam chamber, beneath the bottom of the pan for heating the pulp. and the upper one to convey the steam directly to the pulp in the pan.

California Made Pianos and Musi cal Artists.
Agreeably to au ilvitation we ro paired to Tucker's Academy, a few days since, where it was amounced that a Musical Mutince wonld take place. Although the day was inclement, the Hall was filled to overflowing. The Academy Rooms however, we are pained to say; are fir from being suitable for chasto masical performances. The stage was occupid by two grand Concert Instruments, reccutly manufac tured by the celebrated Piano maker, J. Zech, on California street, and are the finest ever made on this Coast. The quality of their tone is far better and more agreeable than the se imported. Their external appearance is chaste and exquisite. Zech's Pianos haye become popular on this C'oast. and he cannot be excelled in the mamfacture of this instrument lyy the most renowned makers in Luiope or the Atlantic States.

The Mrulinee was produced with great effect by the following artists :-Pianists, Messrs Rodo' Sipp, Staderman, Evans and Shultz; Flutist, Capity; Violincello, Stochr, and our esteemed friend, Ehrich, Violi.1 Primn.
The selections were from the greatest masters. We hare neither time nor sace to offer comments upon the several prothetions pertormed, but would remark that they were rendered in a style and spilit truly artistic and, as, such, rociferously applanded. The itclemency of the weather has athad effect generally upon string instruments, which was partly the cause of the exclasion of DeLerints Concerto as amoun ed, and which would have proved the gem of the day. It is rumored that a subsaription Quartette of striner instruments will soon be inangurated here when only Muzart's, Buothinaven's, Memeldsolu's und other celebrated productions will be given. We wish it a speedy succesc. It will have our aid.

The Nff Qulartz Milt, a working model of which was recently in operation near the corner of Third and 'tomnsend streets has since that time been much improved by the patentec. Mr. Pond, and a new one of larger dimensions is now at the Miner's Foudry, nearly completed It will be in rperation in a few days. Nutice of the me will be miven in ging the particles, every portion of the ore is soon reduc- now at the winew days. the moruing papers. Hlu tratwe engravings of the same by the ordinary mullers, where no such curvent is estab ished. I he letters $G G G G$ represent the mulier raised from its place in the botton of the pan with the face turned toward the observer, exhibiting a set of shoes, which, like those in the bottom of the pan, are also moveable, and may be read ily replaced when worn ont. The letters II represent supports for the statiunary wings D D I) as represented in the engraving upon the right. The office of these wings is to aid in forceing the current of cre to the center of the panas described above.
A, in the engraving upon the ripht rep resents the support of the jnere cud of the wings which are adjustable by the screw II upou the top of the shalt $C$. B is the driver, which carries the muller E . G G represent an end riew of the shoes on tue face of the muller. F F are inclined spiral threads on the outer edge of the muller. which in connection with the spiral ledges on the 1 an create the upward current as before described.
The steam pipes represented upon the left of the upper figare unw bemg prepared which we hope to lay before our readers nexi week. This is one of the most original Quartz Mill Inventions we have seen for a long time, and bids fair to prore a,must complete success.

Rudutipil Sitp-Piamist and Composer.-We have been farored with the acquintance of the gentleman whose name heads this notice. In an issue of the Leipzig Illust, ated Joumal dated April 8, '57 we find a high compliment paid him as aartist of merit, at the same time annuucing his departure for South America: Mr. Sipp is our Countryman, a's well as an scholar and a gentlemab and we bespeak for hm a long and continued snccess in California, His musical compositions rank among the best.

A Contract,-IIoratio Lomhard, of Chic: go. has obtained from the War Department a contract to fulluw the amm of the Potomac and collect the bides and tallow of all the cattle slaughtered for the use of the omiy. There was a rod deal of competition, there being over forty bidders. ir. Lombard's was $\$ 780$ per head, and was accejterl

## Regaraing Patemis.

We desire to call the attention of all those who intend applyiny for l'ateuts, to onr cuprior facilities for whaning the sume. Cor arrangements are sueh that we can late all
the papers preparod.transmitted and returned. with the l'atent Rijht, in threer montha from the time the applicant phaces the mattor into our lands; thus karing at least three monthe delay.
Ther expense to the applicant would he mather less. if the busiassas he durse lyy us. than if the paper:s wero sent to Nesw lurk or Washington.
Thus hy patruniziar a lome institution, our inventive citizens can save both time und money
We have protnpt, intelligent and reliahle agents in the city of Wislanghon who atteul pusctually to all l'atrot
 abd wher Luropran eapitals.

Pacifie Patent Acency.
J. SILN EFSMTTIT,

PACIEIC MAIL STEAMSHIP COMPANY'S Lue to 1'ANAVA FOR PANAJA,
The foltowing steamelifes will he dispatelucil th the month of January, 1883. Jan. 10th-sit. Lat'je, Captain E. s. Farnsworth,

2Lst-tiOLDEN AGE, W. H. Hudson, Commander.
Win leave telsom strent Wharf, with Passengers and Trensure, for Panama at o óclack, A. M., pewctial.i.
And connect. Nla Panama Raurom, at Aspinwall, with steamahips for N. York For freiglit or phssage, apply to
A. B. FORBES, Agent.
je4
Corner of Sacramento nad I.elifestorif ste.

## LATEST IMPROVEMENT

In LADIES' BUCKLES.

 ore mole. Their simplieity, conmbolinueness, and benuty renter them the mist useful as welt as ornameutal triukets.
Orders trom the conutry respectrulty solicited. For particulars call at or
addreas, fremerik reichelt


## REMOVAL.

Office of thie pacieic medalludrgical work:
 Gild anill siver wre,
reincel or mirchased.

my 30


## WRIGHT'S PICKS.



J Oun Whtrint, of Sneramento, has estabbisned himeir in San Francise
 low raters orders from the country prempty aitended to. N. B.-Non genuine unless stamped with my nime. WRIGHT, 511 Market atreet je $=0$ Opposite Battery, Sun Frabeis

## LABOR-SAVING

## Rock Drilling Machines.

TO RNGINEERS, RALLRDAD CONTRACTORS, TCRNPIKF AND OLARRY line. The subscriter P Pate
HAND, HORSE, AND

## STEAM-POWER MACHINES.

Tho Hand Slachines are expressly ardapted for working in Tumele, Galle-
 cliue sappable of drilling a four $\cos$ six tuch diameter bole in gravite four fee dece, and in harid linmstone, six leet pur lour-ilize
belug linited only by the durability of the sted drill. salisfictory reference will be given us to the prich
machine, and its entire success in reduciug the enst of drilliug boles to one t."nth of the former expcose, and on a rock excavation of any extent, from
afty to seventy-five per cent on the en riec afty to sevents-five per cent, ou the entire work. Responsible parties who
have roek cxcivatious to mike in any part of the Stule have rock excelvations to maike in any part of the Stule, the subsectiber will
undertike and guaranteg to perform the work requirell ent a saving of least twenty. ife ner cent. over aly other process.
Address urdurs to
WM. W. DuNN,


## A. ROMAN \& CO.

WHOLESALE AND REIAML
BOOK ESTABLISHMENT.
417 and 413 Montgomery street, SAN FRANCISCO.
OF- Irdera rexplectrolly swifited mad prompty uthembed to.
 A Manu al of Metallurgy, or A lractiral Treatifu on thie Cheminetry of Metals
 ing such oflece it are amplayged in dental proctice.
Reterste of Mining and Metriturgy, or Freta and Memorantan for the Uae of





Togetner with many other worles in this \&similarlines

## A. ROMAN \& CO., <br> 417 \& 419 Montomerv Street.

Gird's 13UDDING IKNIFE
The attenton of parmers, hortictitcriets and cetleirs, orz invention. For description and engraving sce Mintw AxD Sciestifc press
state, Terrritory nud worksing righte fur sale at rensounble pricus. Anirress, J. SIDEREMITH, (Agout for lateutco.)

3 ur $\mathfrak{B e a d f t u n g ~ f i u r ~ E r f i n d e r . ~}$
Grfinber, weldue nidjt mit ber englidjen Spratije
Gelamut find, föncm igre Mittheilungen it ber beutiden Spradie madicn
Efigzen vout Erfintungen mit furzen, Dentfidi) sefurtebenen习efdreisungen belicte naat zu aboreffiren an.

Jul. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery street., bet. Builh and Satter,

## wholesale and retail dealers in

PIANOS, SHEET MUSIC italian stringe
INSTRUMENTS OF ALL KINDS, \&c., \&c.
Sule agents for the celebrated manufacturers,
A. A. GALE \& CO., Newo York;
T. GILBEkT', Boston
C. MEYER, Philadelphia.

Whose rianos thes have always on hand, for sale and to rent.

## Planos for rent:

New Music received by every steamer. New Music pub
ished. Music asvorted and bomed int the best style. A lib eral discount mude to the troule and professors of music.

MUUSIC! IMUSIC !! MUSIC!!!

$$
\text { A. } K \overline{O H} L E R \text {, }
$$

importer of eyery description of
Masieal Instruments and Musical Merchandise.
Sheet Music and Music Books.
GENUINE ROMAN STRINGS, \&c., \&c.. \&c.
Lighte's New Patent Insulated Iron Frame is put into all of
Lighte \& Bradbury's OVERSTRUNG PIANOS.
RANK AS THE FIRST AND BEST
All the leading Mhusiciuns of the country hurve lestified to
their superionity.

## Melodeons and ITarmoniums, <br> from the chlebrated manufactory of

MASON \& HAMLIN
Warrated sypperior to all others.


## Dr. Van Zandt, <br> Consulting Physician and Surgeon, ORFICE <br> Cormer of Washington ani Sansome Strects.

The Great Success of this Contury, as an Aid to Practical Medieine.

The Mysterious Problem of Material Na'ure, Electricity: Made Sulservient for the Cure of all Nervous and Spinal Discases.

THAT THIS PRINCIPLE, Encespully npulied to ti-atand slates


## Too Much Cannot Be Sald


 agents we that frrt restore aml
Awaken the Magnetic Lite Withur Us。
The spinal and syinpinthetue berbe systems. Bolleving as I to ronst firmiy

 culde to ill. No Compromase with Disease.
Give the boly streng th, ald naturo will rethece herself. Purify the life blood, reader the stomach, liver, haart, kiduey and all the natural tinne-
toun actise by EHECTRICAL excitation, and at once the atcid, the palnid
 To the Ladies of Calbfornia.





 rest thase dritins wheth
dies which have so fing

## Baffed the Skill of Plyysicians.

Develob appetite, life and animation, dispel parrous headuche, sinking at the stomach, wandering pains, wathing awhy of atremgth; extrem , ilobility gemeral depressiou of lifu's phetvers, whing ga to rember lier lifi : instiry and death a boon. Dr. Van Zaudl, with his bew method of exctung the Eilectro-tialvanic current, together with his remedinh measures which are
adtapled the tecessities of Cialifornia, will issure you of a complsty and radicu recovery of all bodily aud urputal iufirmities, and will restoro you to usiflnlness, and sp me you a bleesing to your family aud to society.

> All the wovid Over

Wherever disease exists, Whether special to the soil and elimate or com-
inm to all rusions-upidemic or casuall, acute or chrome, contagmotis or aon contagious-il is as necessary to reature che ELECTRO-GALYANIC rquiburi um, especialty in Culufurnia, as it is to give foud to tho starving. This state-
ment is basel upoa a series of facts extending through iniuy ywars and ment is based upoa a series of farts extending through inayy years, and
rercfied by hundreds of pationts; su that no promple of scimese, tho rule of experience, nu result of any well kuown cetlie, resis uphn mirne, suro nud usissalable fumudations, than those which uuderlie the wortd-wide reputation of Electricity for the cure of all nervous states of the hraly, frulty digestion, inen'al and physicul debulity or prostration, coughs, astimat, wandermif pans of a rheumatic, gnuty or mercurial character, and all forms of
dieatse, the resalt of scrofula or caohectic habit of body, Nome Need Despaix of Relief.
If you have ulecrs which will not hend-pains that cannot be removei-
mela melancluly whel you camnot shake nif- loss of power which you cannot se-
gan-depression of spirits which weigh you down-wakeluhess thit knows
 society cial fill-suspicion whieh no assurance can nllay-Go 10 Dr. Yan
Zandt, fir him great succus, and the safuly with which he adainsters his hew bu thon of Electricul ixcitation, together with his remedics, which are ratical rumoral of all bodily aud mental infirmities, within the scope of science nuh mill to remorc.
The Eye and Eax Diseases.
It must not be forgot ten by the eye and car gufferers that Dr. Tin Zatudt has made these aftictions an esprecial study, and that he is the ouly Sirr-
geon e:i our State, who has a dpplomat tor chat brancli of practice. Very
 act, fouting specks bufore vision, twiteling of the eyelids, nervoun deataers, oaring and buzzing noises in the eurs, giddiness, etc.
cesstully done on those delicate orgaus of seuss,
Ofbee-Corncr of Wushugton aud Sansome streets.


The Occidental Hotel ${ }^{\text {Fulton foundry } \& \text { iron works }}$
Open for the Reception of Guests,
$T$ HIS HOCSE HAS ALL THE MONERN MIPROVEEpect to the first class housen hu the Atiantic cities ces reINen fitted up wiht special reference to the comfort and
coavenieuce of the public cenerals, having a new; convenieuce of the pubbic generenaly, baving a vess.
sland ind lirge Cabinet for minerals; also, a Brancli sland and large Cubinet for minerals; also, a Brancha
Telegraph oflice cunnectivg with all the lines throughout Telegranh offic
the couatry. Lewis Leland \& co.
San Franciseo, Jan. 1st, 1863.

## To Mill Owners.

Whastro, by a person fully competeut to the position,

 ans Supernteudent of Copper \$ining Works in Cornwall,
and has acted in the same capncit in Gold Mfines in this and has acted in the same capacity in Gold Mines in this,
State for the past seveu years. He has had muel expeState for ine past seveu years. He has had much expe-
rience, in Cornwall, yis and Assayer, a Maclinest,
a Draithsman, a surveyor and an Assorter of Coper a Drank haman a surbeyor and an Assorter of conpery
Ore He can give anple testimouies as to his capacity for the position he seeks.
Apply at this Office.


#### Abstract

Attention! Attention! A TRACT OF LAND, EMBRACNEG AN AREA of 400 A Atres has recentiy been surveyed aud plotted out terms as any ever oflirod by the rarious Honestead As- socrations io iour elty. The tract is knownas the " Unisociations io our city. The tract is known ans the cturi- veresty dound Survey," and derives its name from the Yersty sound survey, and derives its name from the selecterl a site of albout twenty acres $m$ the ceutre of the selectien a site of about twenty acres 12 , the eevitre of the tract for their Collerge Buildiog and Park. This property is more beatiful thav any oner ever oftered in this market, and its lotation is such that it must in the uas. market, and its latation is such that it must in the ua- tural progress or improvement soon be in great demuad tural progress of improvement soon be in great demabd for places of residence. That this property will iucrease in value, is as certain as the future of san Fraveisco.  paid as largely as auy other, and insurance ugninst ifisk of denreciation it ralue is secured by the sure and rap- of din id iucrease of our population. ble than in resting in wild-cat miviur stock, more profitamenan inresting io wild-cat mining stock, or loauiug The priecs for lots in the abore tract will reman uni- form until nfter the holidays-that is, without uuterest. form until nfter the holidays- Fhe title to the land is perfect. For furtier particulurs apply to

Hirver s. BROWY No. 19 Naglee's Buiding. Lithographic Maps can be scen und had at the ubor named oflace.

\section*{V. SQUARZA'S}

Punch Factory.   distin hug science, hence the celebrity or his articles. Hc has two tstablishments for the sale of his famous Punch  The following is a list of bis liouors, bllo of whinch wo have tasted, and find them the most delicious and harm- less beverages iu this city, being pure and unadulurated with drags or other ingurions clenenicals: unadultera- Rum Tonch 


## WASHOE

Stock Exchange, N. E. cor. Montgomery \& Merehant sts SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and sell Washoc, Emernida and other Mjining Stncks and Securities.

PHILADELPHIA BREWERY, Second St, conner of Folsom, San Francisco
Helscher, \& Wieland Proprietors.
Thanlruil for past patronage to a discriminating ment our many fricneas and patrens that the albove well new marrewery has been permanenily located in our new premises, ons second street- the former resi-
dence of Capt. Folsum where we slall endeavor to conn dence of Capt. Finsum where we shall endeavor to con-
tinue in furumslinty our numerous patrons with the beat
 good reputation for promptitude and the faitholl exeeution ot orders as heretofore, and thereby mereasec our

MANUFACTURERS OF STEAM ENGINES, Quartz, Flour and Saw Mills; Cast Iron ronts for Buiddings, Mining Pum

## Nos, 47 \& 49 First Street,

 Between Market nod Missinu, San Fraucisco.AILL Linds of Tron and Brass Castings furnislinil at short notice. Every style of hinishing lis l-an when chat.
Repairing to Machuery ueatly done luenu Making in Repairing to Machasery uently done luteru Making in
its various furms.
D. B. Hinckley, Wm. F. Worth. Wm A. Field.

DONAHUE'S
Union Iron and Brass Foundry, Corner of First and Miscion Stremts, Ean Franciso The First Established in the state. Manumacturee steamengives, Quartz Stampers, Amalyatmatora, cte., elc., st rednzen Gear nad Machisery Patterns in thr sitate, a lint of
which will be forwarded to sayme desing it. free of
Cuts

## LEWIS COFFEY AND RISDON,

 STEATY BUILER AND SHEET IRONThe only exclusively Luiler Malking Fstan) li: hment on the pachic Const Owued and coldureted by Practiral
Boiler Makers. All onders tor Now Wrrk, the repainat of Ohl work, executed as ordered, and warrantuld as to quality.
old Stan
Old Stand, corner Bush and Market Streets.


PALMER, ITANSCOMB \& CO;
GOLDEN STATE FOUIVDY
AND MACHINE WORKS.
First Street, near Market, San Francisco,
$\boldsymbol{R}^{\text {ESPECTHULLY SOLICIT: ORDERS for all kinds of }}$ Please send llans and Specifistimes.
 Castings and Machitery un thic
sau Francisco, Norember 29, 1862

GREAT REDUCIION in Prices.
STANFORD BROTHERS, 121, 123 and 125 California Street, Kerp the Largest Stock of all Kinds of Lamp Stock
And will sell cheaper than any other
House in this State Lamps, Chinneys,

Wices, Camphene,
Buraing Flutid,
Alcohol, Coar. Oil
Turpemtine, Kerosfne Oid,
COMET ILLUMITATING OIL,
Sperm Oth, Lard Oil,
Machinery Orl,
Rape Seed Our,
Chima Nut $\mathrm{Or}_{2}$
Polar Om,
Lisseed Oil, Raw and Boiled,
Sharis's Oil,
Neat's Foot Oil,
Tanners Orl, Etc.
Our customers in particular, and the country trade generally, are requested to ascertain our prices before pur-
chasing from trivelug ageuts, as wo will sell at chasing from triceling agculs, as wo will sell at le
rales than they can afford to.
aplets

Holiday Presents!
W TCHES,
DIAMONDS,
JEWELRY AND
SILVER WARE,

## BRAVERMAN \& LEVY'S,

cal Wasnington strect,
WECAL TAE ATTATTHN of our Frienis ang JEWELRX AND SILVER WARE,


FRENCH CLOCKS
PRECIOUS STVONES,
Which we are selling, SET or CNSET, at the very 1.OWEST 1'RICES. bRathrmay diby,
nec 291 m
Facing Makuire's Upera Jouse
LEANDER RANSOM,
Civil Engineer AND
SURVEYOR,
Having been connected with thie public works of the Stale of Ohio for 20 years, and the public surreys of the State of Califurnia for 7 years. ALSO
state locating agent.
And ns such having the sate of
600,000 ACRES OF STATE SCIIOOL LANDS,
At the low price of $\$ 1,2 \mathrm{~g}$ per Acre.
Terms-Twenty per cent in ensh aud the balaoce



## Agency For Patents.


 for the securing of Catwats aull Patuts also, will at-
ton to the siles of ratunt Rights, and to all matters counceted witl matentel mura imus. TIFFANY,
WETHERED \& TIFAN OETHERED \& TIFFANY,
Charles r. bond, (Tate Cuty and County Assessor
REALESTATEAGENT, No. 410 Montgomery street, San Francisco. REAL ESTATE PURCHASED AND SOLD, AND LOANS negotitated.

C $\mathrm{C}_{\text {Stree }}^{0}$
READ THIS!
COAL OIL EXPI.OETON.-ON SATLRDAY EVEAING, Street Holise in nouring coal oil from oue can to auother,
his wife imprudently approachell with a hithted cande
 he succeeded in mastering the thanes, and prev
worse consequences -[Evecuing Bulletin, Aug. 4.

## THEN THIS!

Comet Illumitating Oil !
Manufactured expressly for Stanford Bro
Brand of Kerosene Is warranted cree from Camphene, Petroleum BEST FAMILI OIL IN THE MARK FT. STANFORD BROTHERS,

Nns. 121, 123 and 125 Califr-bia strect.
Hor Sale Cheap!
 capable of driving a ten
origioal cost. Apply to

Federal Building, co
BUIITS SII. TERSMITH,
W. T. \& J. GARRATT, Gity Brass and Bell Founders
Cor. First \& Market sts, San Francisco.
 Gnugecoeks. Cyliater cocks. Oil Globeses, Steam Whist ters
 rate's Patent lmproved Jourual Metnle

## F. G. BEPLER,

Practical Coppersmith
No. 118 (Old No. 22) Bush street,
Between sausome and Battery, say Francisco.
Whist thathful for the firmer confidence bestowe njpen ine 1 desire to say that 1 am ready to manke and
repair with cheapuess aldd dispateb every thing in ny line of गusiness: e eipecially all kiuds of apparatus used in Breweries and Distilleries; also, all suth as are usced Where steann, spirits, or pumps of any kiad be required
Also, Kitcheul utensils for Hotels, Restauranls anil pri vate houses. Baking apparatus for Bakers and Confce tioners, as well as alif other biuds of eopper work
dll orders from the country promptly nttended to.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek, san fbanciscu.
CLEAR GOLD BEARING STL.phterets worken at Szu PER TON, AII, Tus Gimp ExTkActen by Chem-



|  | lie pur | murs-3m |
| :---: | :---: | :---: |

SQUARZA'S PUNCH HOME MANCFACTORY. WIMDREALE AND RETAT.
No. 44 Leldesdorf St, $^{\text {St }}$ ncar Sacramento. Branch at 406 sfonteomery street. my30 JULIUS SILTERSMITH,
Commiscioner for Nevada Territory,
office, in late state capitox,
Corner of Battery \& Wachington streets.,
 Whe have busiinces relatinaswith he atorve nam-
 the drawne ap of anidarits, ackuowledgments, the tuk-

JAMES PHELAN, (Lhte J. \& M. Phelaw,
IMPORTER AND JOBBER,
Wines; Liquors, Etc, Etc, Nos. G16 \& 618 Front street, Betwecn Jackson and Pacific Strects, EAN Fravcisco.
Estiblished 1849.
All Goods Guaranteed. Orders Solicited. TERMS LIBERAL. Jan. 1 -ff.

THEODOR KALLENBERG,
Maker of Models FOR INVENTORS.

M AChinfs, MATIEMATICAL, Optical and Philosnphical lustrumernts, Scalks, Weight; ple.;
ps, Dies ant Die Sukk iug, Fimbossinkstanps. Rerairing of Machinery promptly ateended do No. 4 Sansome streer, corn
Snb Fraucusco.

DEVOE \& COS. STEAM ENGINE MACHINE WORKS,

AL. KINDS OF MACHINERY, SUCH AS STEAM FN-
GINES, SAW MJILIIIrons, FIor Mills, Quiltz Mills te., made to order and repaired.
B LACESMITHNG, TORAING, FINISHING, PLA:ING AXI SCR.
Duplicate partio of Threshine and repnired. Machines and Threshing Teeth made to order,
Steam Engines an
and Boncers constantiy on Lathes for sale.

A JOURNIL OF MINING, AGRICULTURE, MANUFAGTURES, SOIENCE, ART, CHFMISTRY, INVENTIONS, ETC.

| VOL. VI. S.IN | FRANCISCO, MONDAY, JANUARY | $19,1863$. | NO. 12. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## PROSPECTING FOR COPPER.

As the altention of prospectors, in California, at this time, appears to be very generally directed to Copper, as a present speciality, we have thought it might be opportune to give a few hints which may be of service in such researches.
The ores of copper are quite nnmerous and presenta great diversity of appearance; $y$ it they are all very readily distinguished by certain chemical re-agents, from noncrpreous ores. The presence of copper in any ore, even to as low a per centage as a fraction of only one per cent, may be readily ascertained by first calcining and then finely pul verising the ore and subjecting it to a bath of water of ammonia, when, if copper is present, the water will assume a blue tinge, more or less intense, according to the amount of copper in the ore. A teaspoonful of pulverised ore dropped into a two ounce vial two.thirds filled with the above men tioned liquid is about the proper proportions to be employ ed in the test. Nearly all the ores of copper may be readi Iy distinguished, after a. little experience, from the appear ance of a greenish tint upon their surface, more or. less observable, and sometimes verging upon purple or blue.
The ores of copper are divided, by metallurgists, into 13 different classes, and each class is subdivided into many varieties. The richest of the ordinary ores appear under two general aspects: the first having a metalic luster of copper sed, brass yellow, iron or blackish gray, at times inclining to blue; the second is without metalic appearance, of a reddish color, verging upon purple, blue or green, the last being the most usual tint. The classes of ore most frequently occurring are Native Copper, Sulphuret of Copper, Copper Pyrites, Gray Copper, Sulphate of Copper, Carbonate of Copper and Arseniate of Copper. Native Copper, so far as we have learned, has never been found, to any extent in this State, although it occurs in greater or less abundance in most other copper regions hitherto explored. It is found in greatest abundance in the mines on the Southera shore of Lake Superior. The most common ores of copper ara sull phurets and oxides the former being the most abundant.
Sulphuret of. Copper occurs in all considerable copper districts, and especially in Cornwall. This is also a class of ore which seems to be very abundant in California. The color of this ore is a blackish lead gray, approaching, at times to tarnished blue or green. It is considered one of the richest ores, and generaffy occurs in very heavy veins.
Copper Pyrites greatly resembles, in appearance, sulphuret of iron, common in the gold beariug quartz of this State, atd will probably prove the most abundant of the copper ores on the Pacific Coast. This with the sulphuret of copper, forms the chief yield of the copper mines of Cornwall. The color of the Pyrites is brass yellow, subject to tarnish, with greenish black streak and uneven fracture.

Cooper Pyrites are readily distinguished from iron pyrites, which they greatly resemble, by their inferior hardness; they may be cutwith a knife, while iron pyrites will strike fire with steel. A marked difference may also be noticed in the effects of nitric acid upon the two substauces, They do nol form so rich an ore as sulphurets. The richiess of the Pyrites may generally be judged by their color. If they
present a fine yellow hue, aud readily yield to the hammer, they may be considered a good ore; but if they are hard and of a pale yellow color, they are mixed iron pyrites, ald consequently comparatively barren of copper and constitnte a poor quality of ore.

Carbonate of Copper is of a blue or light green color, with pale green streak. It often occurs in beautiful green chrystals. It is also known as Malachite. Green Malachite or Green Carbonate of Copper admits of a high polish, like marble, and when obtained in large slabs, is often formed into tables, mantel pieces, etc.

Arseniate of Copper is of various shades of olive Green, and sometimes occurs in beautiful blue cbsystals. It readily melts before the blow-pipe, throwing off fumes of garlic odor. This ore is but little worked.
Gray Copper ore is of a steel gray color, more or less deep, either bright or dull. The value of this ore is often very materially increared by reason of the silver: which it coutains: It is generally accompanied, to a greater or less extent with copper pyrites.
Sulphate of Copper (Blae Vitriol,) is similar to the artificial salt of the laboratory: The water luwing from mines of this variety of ore is of a blue tint, caused by the solution of this salt. Copper is easily obtained from this water; in a metalic state, by depositing pieces of serap iron in it.
The ores above named are about all the ores of copper which are worked to any extent. The copper of Lake Superior contains about 3-10ths of one per cent of silver. The copper of this State, mostly if not all, doubtless contains 2n appreciable quantity of both gold awd silver. Of this we shall probably receive more deffinite knowledge when full returns are received from the ores which have been shipped Enst for reduction. Many of the mines now being explored for copper; have heretofore been worked for gold, and abandoned because they would not pay. As our miners become familiar with the characteristics of copper ores these mines are being rapidly re-located, and worked for their legitimate yield, which, as a general thing, will be found to be mucl more profitahle and enduring, than any ordinary yield of the more precious mineral, so generally sought for in California. A. little science will be found of vast impor tance to the practical miner everywhere, and especially in California, where the mineral deposits assume such a great variety, and are found in such unprecedented profusion.
Our miners according to presentindications, will soon beOur miners according to presentindications, will soon become as familiar with copper ores, as they have, for the last ten years, been with gold. We shall, from time to time take occasion to throw out sach practical hints as may be deemed for the advantage of those engaged either in prospecting for ores, or raising and reducing them.

San Francisco Physiological Society.-Articles of in corporation in favor of the San Francisco Physiological So ciety were filed on Tuesday last, in the office of the County Clerk. This is a benevolent and scientific association which proposes to cultivate the science of human physiology, and to elevate woman to a standard of physiological knowledge

## MINING SUITS IN WASHOE.

The Territorial Enterprise of Tirginia City speaks as follows of the Miuing Suite now in progress or contemplated in that neighborhood: "Lawsuits and the rumors of lawsuits have been the talk of operators and the study of lawyers during the past week. The arguing of the Potosi-Chollar case before the Supreme Court, seems to have suggested scores of opportunities for litigation; and any number of injunctious and ejectments loom up in the future. Like a contagion, however, this condition of affairs must soon die out from the want of subjects, or be dissipated by a purer atmosphere, when the real owners of claims will be all the more secure in their possessions for the ordeal of menace and litigation through which they have passed.
Prominent among the approaching suits mentioned, are -the Sacramento and Meredith ; the triangular case of the Baltic, Uncle Sam and Sweezy ; the re-opening of the North Potosi and Hale \& Norcross suit ; the Savage vs. the North Potosi; aud more remote; but not less certain, the Rogers and El Dorado squabble. The Sacramento sues, to quiet title, near a dozen mining companies on Cedar Hill ; but the suit, it is well understood, is aimed at the Meredith, and will find a hearing some time next month. The second case mentioned gives promise of being long. and spirited. The Sweezy first located the ground in dispute, the Uncle Sam re-located it, and the Baltic claims title through a Constable's or Sheriff's sale of the ledge for debt. The Sweezy plea is that the claim was never subject to relocation, the Uncle Sam that it was abandoned by the Sweesy and illegally transferred to the Baltic, and the Baltic that the Sweezy did abandon and the Balicic did acquire possession through the sale referred to. The suit between the North Potosi and Hale \& Norcross, won not long since by the latter, need not be explained. The Savage now threatens suit for the remainder of the ledge left the Potosi by the Hale \& Norcross verdict. The Potosi will endeavor to prove that the ledge it is now working lies in front of the Savage claim. The most interesting case, perhaps, is that of the Rogers aod EI Dorado-all the more so, as the ledge in dispute is presumed to be of great value. The Rogers stock has found its way, to a great extent, into the hands of heavy operators, but the El Dorudo seems sanguine of its ability to place the Rogers stakes three hundred feet west of the Montour ledge and maintain possession of the expensive works now seen on the contested ground.
The Yellow Jacket has also commenced a suit against the Union, Laboring and Princess Companies, to quiet ti-

Capitalists wait with some auxiety the decision of the Su-
preme Court of the Territory, in the suit of the Chollar Company vs Potosi Company, in the event of reversion of judgment, the Potosi would advance to three times its present rates, and an advauce may be reasonably looked for in Chollar stock if the judgment of the lower Court receives confirmation.
The value of the ground now pending in the strit between the Chollar and Potosi Companies is variously estimated at from five hundred to one million of dollars.

## MINING NOTABILIA.

## virginta city and vicinity.

The Pioneer Company, on Commercial Ledge, iu Virginia District, says the Tirginia City Unon, who bave been for more than two years running in a tomel struck their ledge a few days since, and lave now a very fair prospect of getting some of their money back again. The rock has every indication of being rich in both gold and silver.
The Caledonia Company, Gold Hill District, after running a tannel 1700 feet in length have struck the ledge and found exceedingly good rock in it. Verily industry bath its reward.
The Granite mill, at Gold Hill, cleancd up a three day's run, Dec. 29, and realized 96 pounds of retorted amalgamsilver and gold.

## hembold mines.

Some very rich specimens have recently been exhibited in Virgivia City from ratious Humboldt mines. 'I hey were from the Moonlight, Chameleon, Sargent, Osceola, and other ledges, chiefly in the Buena Vista District.
Some apparently very rich ore from the Sheba mine was exhibited in this office, a few days since, by Mr. Jos ph Powning. He assured us that they had a hage pile of the same sort at the moath of their tunnel.
There is as yet a degree of indefnite knowledge with regard to the Humboldt mines, that operates very unfavorably upon the sale of its stock. We trust the results to be soon obtained from the various mills now about going into opera tion there, will speedily dispel the cloud restivg upon these mines and reveal the shining ore in the richest profusion.
The apparent richness of the Sargent ledge is still a matter of much interest. It was discovered by a newly arrived emigrant, in the latter part of November last. At the point where it was first discovered the ledge is reported four feet wide, and it said to assay as high as $\$ 900$ from the top rock A short tunnel is now beivg run iato the ledge to open it at a sufficient depth to arrive at some aprox:mate estimate of its value. The fortunate discoverer expects to beat the Ophir when he gets down a few feet. The Brutus is the name given to another newly discovered ledge in the same vicinity said to be also very rich.
A Company has been organized for the purpose of runninga double track tunnel into the main mountain, at the head of Congress ravine, near Unionville. This enterprise, when completed will be of great beneft to the numerous mines in that hill, all of which will thereby be thoroughly prospected.
A Map of the Humboldt mines is in course of preparation by Messrs Millson \& Washbarn, which is said to be ve ry correct and full in its details. It will be a very valuable publication.

## reese river mines.

The Reese River Mines are attracting much attention, and a number of parties are organized in Virginia City for a thorough exploration of that country. Fine specimens of silver ores from that region are on exhibition in that. city, and stories of the richness of the new mines, calculated to excite, are in circulation. Such reports, however, should be received with much allowance.
Three ledges have recently been discovered, on Reese River, which afford already incontestible evidence of richness. Several specimens have yielded from 60 to 75 per cent pure silver. The names of the ledges are the "Oregon," "North Star," and "Lander." Dr. Veatch has some magnificent specimens taken from these claims which will soon be deposited in the "Occidental cabinet" in this city. A "floater," very rich, and weighing some $151 / 2$ pounds is also in the Doctor's possession. The weather on Reese River is very inclement, and considerable snow has fallen during the last month.
Tee Troffle is said to be disappearing in France. This production has neither stem, fibre nor root; and no researches have succeeded in discovering the germs from which they are developed. The truffe will not grow in land that has been manured; it loves a wild, uncultivated soil, enriched only with the rotten leaves of the forest, and demands both moisture and sun for its development. The truffle can only be cultivated indirectly by plantipg groves of the peculiar species of oak among whose roots it is found ${ }_{f}$

## titlee to mining claims.

In the case of Merritt \& Brown vs. Judd \& Byrne, decided by the Supreme Court, the Judges say:
"From an early period of our State Jurisprudence, we have regarded these claims to public minerd lands as titles. They are so practically. It is very evident that the Goverument will uot change its policy in respect to them- that they
will not be sold, nor the present tenure altered will not be sold, nor the present tenure altered. Our Currts have given them the recognition of legal estates of freehold, and so, to all practical purposes-if we except some doctrine of abandonment, not, perhaps, applicable to such es-tates--unquestionably they are, and we think it would not be in harmony with this general judicial system to deny them the iacidents of freehola estates in respect to this matter. If to decide thus be a departure from some technical rules of lawt, it is but following other rules, which hold that a system of decisions, long established and long acted upon, shall not be departed from when importantrights have vested under it, merely because the reasons upou which it rests might not. in the judgment of subsequent Judges be considered sound. We can see no difference in respect to the principle between a house built upon pultic land, and a fixture ; the reason which makes one a part of the inheritance, applies to the other, and it is only by denying the vendee, or quasi owner the character of oryuer, that the legal conclusion can be escaped, that the title to the land, whatever it is, carries with it the title to the structure annexed to the soil."

Mending Water Pipes.-The Scientific American give a rery simple and ingenious plan for mending or repairing water pipes where the water cannot be conveniently shut off. The operation is described as follows, by a corre-pondent of that paper: "In going to my office a few days since, my way led past a place where a man was repairing a lead pipe which had been cut off, accidentally, in making an excavation. There was a pressure of water of more than fifty feet head. His plan seemed to me to be novel and ingenious. The two ends of the pipe were plagged and then a small pile of broken ice and salt was placed around them ; in five minutes the water in the pipe was frozen, the pluga removed, a short piece of pipe inserted and perfectly soldered, and in five miautes more the ice in the pipe thawed and the water flowing freely through it. It seemed to me that so simple a method of doing a somewhat difficult piece of work should be more generaly known, and I know no way of reaching the mechanics of the country so readily as through the columns of your interesting jouraal.

Rearing Plants by Steam.-Mr. D. Moore, in his report to the Royal Dublin Society, describes the garden of Mr. Borsig, at Moabit, near Berlin, where there is a fine private cellection of plants, the grand features being the amazing number of tropical aquatic plants cultivated in the open air. This is effected by supplying a winding stream which passes through the garden with a constant flow of hot water from the adjoining iron works. This stream is about 100 yards long by 20 wide. Only three years ago a single plant of Nelumbium speciosum was planted, which has already spread itself over a great portion of the stream ; and Mr. Moore saw not fewer than 100 exparted blooms of this loviest of flowers. At the same time there were many flowers of Fictoria regia, Nymphcea Devoniana, Nymphee coerulea, Nymphrea dentata, \&c., altogether producing such a charming floral picture as can hardly be imagined.

Preventing beer from Turning Sour.-A French chemist has discovered a chemical compound, by which, upon the addition of a quantity of it, according to the quantity of beer operated upon, it prevents the beer passing into the acetous fermentation, and keeps it in a perfectly sound condition for an almost indefinite space of tine, no matter the quality of materials used in its manufacture; but as beer, dcc., are exciseable articles, and the penalties heavy if found adding any substance otherwise than that allowed, the discoverer goes to the Board of Inland Revenue, states the discovery he has made, wishing to know if any brewers using it would be prosecuted. The Board reply by saying it must receive a searching analysis by their chemists, to see whether it would be injurions to the consumers. In a subsequent communication from the Board, a reply is given that it possesses no injurious qualities, and he is allowed permission to use it. He is about getting a patent for it, as to have used it without the sanction of the Board, prior to obtaining a patent, would have subjected him to heavy penalties.

Mining Stock and Exchange Board at Aurora City--Esmeralda.
A Mining Stock and Exclange Board has been organized at Aurora City, Esmeralda, the object and method of operating which is explained as follows, in the Aurora Star:-
"An examining comarittee, consisting of five and at preseut composed of the folluwing gentlemen : Messrs. John Neidy, Henry Bequette, E. Green, A. D. Allen and Peter Oppenheim, all of whom are old residents, and whose experience in quartz on the Eastern Slope, is not to be excelled, upon the request of an incorporated company, visit the mine, break the rock from the ledge itself, taking the centre and ontside strata, lave it assayed and file the certificate of assay among the archives of the Board. A specimen of the rock is also properly labeled, with the amount it assays marked upon it and placed in the cabinet of the Board. At the regalar meeting of the Board the reports of the examining committee are read, stating the number of leet in the lode, character of the ruck, width of the vein, amount of work already performed, and the character of it-the capital stock, number of shares, resources and indebtedness of the corporation, and present the certificate of assay which is filed by the Secretary.
The Board then proceed to classify it, as No. one, two or three, according to its assay, and appraise the value of the stock, after which it is placed upon the regular lists, and together with other regular lists of stocks, will be published weekly, and a certified copy sent to the Board at San Francisco, who are instructed to pay no attention whatever to stocks not reported in the regular lists here, which will drive all fictitious, spurions and "Wild Cat" stocks out of the market. The innocent purchaser will be spared from being robbed, and claims which have a real value, will take at once their proper place in the published lists, and the credit of the District will be well maintained."
The Bids offered at the first meeting of the Board will be found under our general Stock Report.

Calformia Exports for 1862.-Includiug our Exports of Treasure, the entire exports of the Productions of the State of California, during the year 1862, are classified by the Mercantile Register as follows:
Products of the Mine..
. $\$ 44,105,662$
Products of Agriculture.
1,645,350
Products of the Herb.
2,027,082
Products of the Forest. 140,560 Products of the Sea. 21.868

Products of Mannfacture.
708,191
Products of the Vine...
25,836
$\$ 48,773,540$
Rev. F C. EwEr.-This gentleman, so well known in California, was recently installed as Rector of Christ Chureh, on Fifth Avenue, in the city of New York. This is one of the finest structures in that great city, modelled after the Madeluine, in Paris, with domes and no side windows. The congregation has doubled, we are told, since Mr. Ewer's election as Rector. This is good news to the many frieds of the reverend gentleman in this city.
Quaytz Mills not Subreot to Federal Thaxation.-Mr. Boutwell, Commissionor of Internal Revenue, writes D. K. Swim, Assessor of Calaveras and Tuolumne District, that Quartz mills are not subject to taxation under: the Federal revenue laws.
Academy of Naturas Sctences.-The following named gentlemen have been elected officers of the Californis Academy of Natural Sciences for the ensuing year: President, Colonel Leander Ransom ; First Vice President, Dr. J. N. Eckel; Second Vice President, Dr. J. B. Trask; Corresponding Secretary, Dr. Wm. O. Ayers ; Recording Secretary, Professor W. H. Brewer ; Treasurer, William Heffley; Librarian, Professor T. D. Whitney. Curators-On Mineralogy, Gideon F. Moore ; on Botany, Dr. A. Kellogg ; on Yaleontology, M. Sabb : on Concholugy, Dr. J. S. Cooper; on Entimology, Dr. H. Behr.
A Mint for Netada T'errtrory.-In the House of Representatives on the 9 th inst., Mr. Sargent introduced a bill establishing a Rranch Mint in Nevada Territory, which was referred to the Committee of Ways and Means.

## MINING AND SCIENTIFIC PRESS.

## SAN JRANCISCO MLNING NOTICES.

Ren. Wifta and Plus (3. of A. M. Co. levied an assessmant i2.) e uts per share. Payahle on or before Fell. 1st, oflice cor. Fine and Muntgumery its.

An asiexsment of s3j per hate was levied Jau 6, payable inomediately, at oflice, No. 712 Montgomery street.

Iona Copper Mining Company.-The annual meeting of Stockholders for the election of oflleers, will be held, Jan. 23 , at oflice. No. $5 t^{2} 2$, Montgonery street.

Live Oak Copper Co.-The Annual Meeting of Stockbolders for clection of Trustees, will be held at Office, in Muitgonery Bluck, Feb. 2, 1s6:3.

Coso Silver Mining Co.-The Office of this Company hns buen removed from the Stevenson Honse to Nos. 11 and 13 Cunrt Block, No. Gi36 Clay street between Nontgomery and Kearny. Entrance on both Clay and Merchant streets.

Cembar IIIl Tombel and Mining $\mathrm{Co}-\mathrm{A}$ adjourned meetjng of storkhohlera will bu held, Jan. 15, at Unice, Room 5 , over Pariot's Bank.

Mima Printa S. M. Co.-An assessment of $\$ 10$ per share was levird. Dec. 26, 1862-payable at office, cor. Montgomery and Jackison Sts., on or before Jan. 26, 1863.

Savage Mining Co.-The Annual Meeting of the Stockholders of this Co. will be held at Olice, 712, Montgomery St. Jun. 13.

Union G. \&S. M. Co.-The regular quarterly Meeting will be held, at Office, 410 , Montgomery St., Jan. 19 .

The Madison G. \& S. M. Co. advertise names of parties who are in arreas for assessments, and give notice that their stnek will be sold on the 29th day of Jan. unless said assessments are previously paid.

Franco-Americano S. M. Co.-The following persons were elected officers at the meetiug of trnstees. Dec. 26 thChas. F. Gaian, President and A.S. Gould, Secretary.

The office of this Compiny has been removed to No. 528, Clay street, Room No. 2.
Sierra Nevada S. M. Co.-The annual meeting for the election of 'Trastecs will be held at office No. 40, Montgomery Street, Jan. 12th.
Lucerne Mining Co.-The Annual Meeting for the election of 'l'rustees will bo held at Office 114, Battery St., Jun. 12th.

Central Silver Mining Co.-The Annual Meeting for the elertion of Trustees will be held Jan. 13, at Office, No. 712, Montgomery street.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for asseasments, at No. 400 , Montgomery steet, ou Jan. 27.

Desert Mining Co.-Shares of telinquent stockholders will be sold at anction, for assessmants, at No. 400, Montgomery street, Jan. 27.
Wide West Mining Co.-Tbe Jecretary of this Company publishes an important notice to Stockholders, in the daily papers.
Reese River Mining Co.-Ten cents per share has been levied upon the capital Stuck of this Company, payable Jan. 14th.

San Francisco S. M. Co. have laid an assessment of $\$ 25$ per share, rayable on or before Jan. 1st, 1863.
Pacific Quicksilver Mining Co.-Assessment No. 3, of \$1 per share was levied, Dec. 22, payable immediately.
Keyst ne Copper Mining Co, advertise for preposals to purchase or treat 3d quality copper ore. Proposals received till Jan. 15th.
Mammoth Ledge Mining Co.give notice of an assessment levied and payable on or before Jan. 13th. Also that the first annual Meeting for the election of Trastees will be held at office, Jan. 17th.
Hale \& Norcross s. M. Co. have levied an assessment of $\$ 5$ per share payable on or befure Jan. 26 th.

Charliss Cany Mining Co.-An assesment of $\$ 150$ per share was levied on the stock of this Company, Dec. Itth, 1862, payable on or before January 14th, 1863, at office, 338 Montgomery St.
Live Oak Copper Mining Co.-Office, Montgomery Block - An assessment of thirty cents per share was levied, Dec 1st, 1862 , payable in thirty days.

Norti Potosi Shlfer Mining Co.-An assessment o four dollars per share was levied on this Company, Dec. 11 1862, payable on or before January 16th, 1863, at office,
Cor. Battery \& Washington Sts. Cor. Battery \& Washington Sts.
Meredinie Gold \& Siliver Mining Co.-An assessment of two and a half dollars per share (five dollars per fo $t$ ) was levied by this Company, Dec. 11th, payable immediate1y, at office, 712 Montgomery St.
Bullion G. \& S. M. Co.-The Stockholders are notified
that they will hemr something to their advantage by calling at the ullico of the Comshany, cor. Pine und Montromery sts.
Nortas G. \& \&. M. C'o-An assessment of two dollars per share was levied Nov. 25, payable on or befure Ilec. 30th 1802, at oflice 5\%2 Montganery sit.

Ihos l'inare (i.d.s. M. ('u.- In assessment of threedollars per hare was leviedi, Nov. 29th, payable on or before Jan. 1st, 1863 , at otlice 502 Moutgomery St.
Emaet G. \& S. M. Co.-An assessment of twenty-five cents per share was levied. Nov., 21 st and is now due, and payable at office 326 Clay St.

Vibsard G. if S. M. Co.-An assessment of 25 cents per share was levied, Nov. 21st, and is now due at office 326 Clay St.

Doyma (G. \& S. M. Co.-An asessment of 25 cents per share was levied, Nov. 21st, and is now due at office No. 326 Clay St.
El Dorado G.\&S. M. Co.-An aseessment of one dolnir per share was leried, Dec. lst, and pryable at oflice, on N. E. cor of C'aifornia and Montgomery sits., or to super intendent in Viginia City.
Another assessment of one dollar per share was levied Dec. 22, payable as above.
Iowa Mining Co.-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Moutgomery St. on, or before Jan. 3d, 1863.
Josepuine Mining Co.-- $\Delta n$ assessment of two dollars per share was levied, Nor. 19 th, and is now due and payable at office No. 21 Stephenson House.
Buraside S. M. Co.-An assessment of one dollar per share was levied, Nov. 17 th, payable within 30 days, at office 712 Montgomery St.
Hawley Mining Co.-An assessment of 50 cents per share was levied, Nov. 15th, payable at once, at office 204 Front St.
American Quicksilver Mining Co.-An assessment of ove dollar per share was levied, Dec. 16th, payable at Company's Office, in Petaluma, within 30 days-At the expira tion of which time delinquent Stock will be sold.
Napoleon Coppeir Mrning Co.-The first annual meeting of this Company will be held at office N. E. corner of Sacramento and Montgomery Sis., on Monday, January 12 th 1863, at 8 P. M.
Burning Moscow S. M. Co.-An agsessment of Two Dollars per slare was levied, Nov. 25, for the purpose of defraying expenses of stean pump and machiuery now being erected to drain the mine. Prompt payment is requested at the Company's office, corner of Monigomery and Jackson Sts., to Jos. P. Nourse, Sec.

## WASHOE MINING NOTICES.

Baltic Mining Co.-Notice is given of an adjourned salo of shares in this Company, to take place on the ground, Jau. 31st.

Progress G. \& S. M. Co.-An assessment of 20 cents per foot was levied, Dec. 27, 1862, payable forthwith.
Sweesy Co.-Washington Ledge. - An assessment of $\$ 10,000$ being $\$ \overline{5} 1 / 2$ per foot-was levied on the stock of this Comyauy, Dec. 28, payable at the Secretary's Office. Medan Building.
Miners' Meeting.-At a meeting of the shareholders of the Siegel Mining Compauy, it was resolved that a meeting be called of all the miners of the Siegel Miniag District, for the purpose of making laws by which said District may be governed, and that said meeting shall take place on the 15 th day of January, 1862, in said Siegel District, in or near a certain place better designated as the Siegel Min ing Company's Cabiu.
Caution.-D. M. Tyrell warns persons against purchasing certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, stauding in name of W. Williams. (See Territorial Enterprise.)
Ashland Co.-I. A. Gould, in the name of the Moss Co. notifies the Asbland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ash land Co. is forbidden to extract any valuable metals.
Eldorado G. \& S. M. Co.-An assessment of one dollar per share was levied, Ded. 31, 1862, payable, Jan. 22, 1863, to the Secre'ary, at corner of Montgomery and Califoruia streets, or to the Superintendent at Virginia City.
La-Plata Oro Co.-Gold Hill District.-An assessment of two dullars per share was levied, Dec. 26, payable at once, at Office of the Secretary, Court-house Bnilding, Virginia City.

Texas Co.-Tennessee Ledge.-An assessment of 25 cts. per foot was levied, Dec. 22, payable on or before Jan. 21, 863.

The Regular meeeting of the Company for election of officers, will be held at the Comet Saloon, Virginia City, on Saturday, Jan. 21.
The North American Co., Gold Hill, will sell at anction,

Jan. 31, stock of shareholders delinqneut in payment of sesuments.
Girass Valley ('o.-A mecting of this Co. will be held
the "Medan," in Virginia City, on Thursday, Jan. 15.
Asmbina G. \& S. M. Co.-An assesement of fity cents
per shati, was le vied, Dee. 10, payable at the oflice of M. J. 1'ower, sec., B. St.
Norman Shever Minino Co.-An assesement of One Dollar per share was levied, Nov. 19 th, payable on or before Dec. 31st, to the Superintendent in Vireinia City, or at the office, No. 40, Montgomery Street, Sun Franciseo.

Martin Wibte Mining Company.- An assesement of ten oents per foot has been levied, payable to the Sucretary, at cffice on C Street, Virgidia City,

Thr Sweney Co., Gold Hill, give notice that Baltic Company bave wrongfuly claimed and worked their ground since July, 1860 .

Pogrman G. \& S. M. Co.-An assessment of Five Dollars per shure was levied, Nor. 94h, and another of Ten Dollars per share, Nov, 21, payable at onco to the Secretary, R. J. Mischel.

Colebona Tlineel and Mining Co.-An afsessment of Thirty-two Dollars per share was levied, Dec. 8th, payable immediately to the Secreary, Martin White.
The Chmaey Rock Co., lying next west of the Virginia Co. claims have notified the Hazel Green, Tingley and Bach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.
La Croser Mining Co.-An assessment of $\$ 22$ per share was leried, Dec. 8th, payable at office 73 C Stieet, Virginia City.
Hafk Eye Silver Mining Co.-An assesement of 25 cents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Monegan Co , Cedar Hill.--An assessment of fifty cents per foot was levied. Dec. 5th, payable forthwith, to the Secretary, at Virginia City.
Oriental G. \& S. M. Co.-The 3d asseesment of 15 cents per foot, was lev'ed, Dec. 8th, and is payable at office, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTICES.

The Zenobia Lode Company, give notice that they claim a superior title to the Johnson Co., claiming the same ground, so far as said localities couflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J.C. Dorsey. S. P. Dorsey avd James Elder,

## MINING AND SOIENTIFIO PRESS.

## THE ONLY MINING, MECHANICL, AND SCIENTIFIC PAPER ON THIS CONTINENT.

## THIRD TEAR: VOLUME VI.-NEW SERIES।

1862. In wr volume of this extensively circulated paper commenced Sept. 11, 1862. It is intended that every number shall he replote with information concerning Mining, Suientific, Mechanical and Industrial pursuits, togather with several origmal engravings, of new inven folums. etc., prepared expressly This paper is of Suience, Ar devoted to the above purposes, togother with the interests that may be of intericulture and Commerce, and any general information tor to spare no pans or expense in raasing it equal in interest and valuable ormation to any paper yet published.

## The Mining Tnterest I

Will fand it of great value, as it will contain all the newsenpportaining to Miving, the prices and sales of Mining Stocks, new inventions of Machivery to the Miner.

## The Inventor:

Will find it an excellent medrum for the purpase of bringing his invention into notice, of ascertaining the progress of inventiou in this and other countries, and also of receiviog any liforming hat may be necessary Patent Agent, together with facilities at Washington that enable him to ob ain Pateuts with dispatch.

> The Mechanic and Manufachurer !

Will be greatly benefitted by its perusal, as each number will contam several orizinal ongravings of new machines ava inveations, logetber with recoiving the best ecientific journals from all quarters, from whiul wo shall coutinue to extract whatever may be of benefit or interest to our
To Chemists, Architects, Millworights and Fariners !
This journal will be invaluable. All new discoveries in Chemistry will be Millwights will be found in our columns. The Farmers and Planters will not be neglected, engravings will be given of agricultural implements, and the farming interest geuerally will be amply discussed

## Terms.



# 然位may and Scimtific gurs． 

W．B．EWER，．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
MONDAY EVENING．．．．．．．．．．JANUARY $19,1863$.
The minning and scirntific Press is published at the Exclinige Buldiog，Room 27 ，corner of Battury mad Washugton streets sin Fran－
C．W．M．SMITH and W．B．EWER，Proprietors．

## Engravings，Niectrotypes，ctc．

We execute at this O円fee Engravings and Tiustrations on wood，stone，
 cription－Bulinding ${ }^{2}$ ，skete
Plaid or Colored Priutiug．

JOB WORK－executed with dispatcll at the clienpest rates．
Patrovs will remeinber that when we execite eugravipest wate．will insert
 verlising Medium to be fourd m the country．

## To Printers．

An Interest in oue of the most fournhing aud best paying Newspa－ per Offces in the mountains is offered for sation on easy terms．A rare op－ ortunily is hereby preseuted to any priuter desirous of e：tablithing him－ self in a good busiuess in one of the heallhiest，most thriving and delight． ful mountain towus iu the state．For further information enquire at this ofice．

In our issue of last week we commented at some length upon the pernicious exagerations and misstatements which characterise and constitute the late Report of the Land Commissioner to the Secretary of the＂Interior．That＂Re－ port＂has been wide．y circulated by the press of this State， and its＂hifalutin＂talk placed side by side with the plain facts of our mining growth and production．Nothing could be more cruel．Such balloon like fancies when brought in contact with any reality produces no concussion whatever．

The Commissioner at one time seemed disposed to take Mr．Sargent＇s excellent advice，to come out to Calfornia and see and learn for himself，the nature and condition of our mining interests．We trust he will do so；or at least by another year prove himself to be＂ 2 man who reads the pa－ pers，＂

Last week we said＂The Commissioner，gravely and un－ qualifiedly assumes that the yield of the current year will reach $\$ 100,000,000$ ．In another column we have given an accurate report of the shipment of treasure for the jear end－ ing Jan．1st， 1863 ，which foots up all told only $\$ 42,561,761$ ． This shipment it should be recollected has been made under the unusual stimulus of an extraordinary demand for gold at the East，\＆c．＂

Even this does not express the whole truth coucerning the product of California．It is an exceedingly slight devia－ tion from the truth to say that all the gold dug in California and all the silver produced in Nevada，quickly comes to San Francisco to be made into bars or coin．

According to the very reliable statistics recently publish－ in the＇Bulletin＇．＂the receipts of Treasure from the Interior，＂ at San Francisco，during the year 1863 ，were $\$ 42,539,799$ ． But of this amount $\$ 4,989,921$ was coin，and therefore whether the product of this year or not，had been counted once before．The amount uncoined was $\$ 37,549,878$ ，and if from this we deduct the amount which the same paper a few days before stated to be the receipts from Washoe by pub－ lic convefance，viz．，＂about $\$ 5,500,000$ ，we shall arrive at the true yield of this State during the year just passed－$\$ 32$ ，－ 049，878．
In 1853 ，it was more than $\$ 53,000,000$ ．The mathemati－ cal genius of the Commissioner alone can show how long it will take for California to reach his estimate of $\$ 100,000$ ， 000，at the same rate of increase．

We need not however go back 8 years．Again we quote from the Bulletin，correcting a slip of the pen or type for 1861 ，in which the receipts from the Northern mines are given as the uncoined treasure and those from the Southern mines as the coined ：

| Uncoined Treasure Received in San Francisco． |  |  |  |
| :---: | :---: | :---: | :---: |
| 1860. | $\ddots$ | 1861. | 1862. |
| $\$ 37,802,539$. | $\$ 35,880,632$, | $\$ 37,589,878$. |  |

That is，including $51 / 2$ millions from Washoe，the receipts of 1862 fall $1 / 4$ of a million short of those of 1860 ，when little or none was received from Washoe．

If this decrease has taken place while the mines are free to all what ought we to expect under any system of taxation whatever？

We believe however that the proposition to tax the mines has received its quietus．Gold at 48 per cent．premium，is the grandest orator uddressing the grandest audience in the world－every man in the Union－an orator that will be re－ membered long after this foolish proposition of taxation has been forever forgotten．

## OUR MINERAL RESOURCES．

The restlessness of the Califoraia miner，while，as a gen eral thing it works only disaster to the mdividual，is exert－ ing a most beneficial effect upon the community at large It is to this class of our $p$ pulation that the country is main－ ly indebted for the wondertul development of her．mineral resources which has been accomplished within the past three or four years．The Fraser river excitement of 1858 seems to have impressed upon the mind：of our mining population the idea that California was not the only portion of our ter－ ritory，on the Western Slope，which was rich in mineral Though，to a great extent disappointed in their expectations of the value of the Fraser riper mines，the adrenturers thither were determined to continue their explorations in other quarters．The result has been a most wonderful de－ velopment in both the variety and extent of our mineral re sources．The new mineral fields developed by these hardy and determined explorers，present an already extensive out lay in Washington Territory，and Oregon，and extend for hundreds of miles along the Eastern Slope of the Sierra Ne vada，and far into the interior of the＂Great Basin．＂Large cities and towns have grown up in some of these localities， which，in the marvelousuess of their growth，compare favor－ ably with the early cities of California：while the flow of precious metals therefrom forms most important tributaries to the main stream which courses so regularly through the Golden Gate．
The general yield of the placer mines of California is ev－ idently on the wane，and the development of our quartz interest would utterly fail to keep up the monthly shipments to their geoeral average，were it not for the timely supply that is coming to our aid from these new mining districts．

The amount of gold and silver now finding its way to this city from Nevada＇Territory forms no inconsiderable item in the montlily shipment of treasure to the East；and yet it must be acknowledged by all who have any acquaintance with that region，that the returns as yet are but the small beginnings of the grand total which must soon foot up as the average monthly gield of the Eastern Slope．Patient and careful explorations by experienced miners are still daily enlarging the boundaries of that remarkable mineral region． Far out on the Humboldt，nearly approaching its head wa－ ters，withiu the unexplored borders of Oregon and Wash－ ington Tervitories，the explorers have already pitched their tents and are sending to their friends here and in Washoe the most indubitable evidences of the extraordinary miner－ al wealth of those distant regions．The evidence is now overwhelming that California forms the mere wistera edge of a vast mineral field whose area comprises the entire cen－ tral portion of the North American Continent，and whose natural outlet is through this city．

These extensive developments are the chief causes that have of late years created so much confidence in the in－ creasing growth and prosperity of San Francisco．Just in proportion to the extent of the development of the mineral resources west of the Rocky Mountains，will be the future growth of this metropolis．It is now apparent to even the most casual observer，that the developments and accom－ plishments of the next decade cannot fail to place San Fran－ cisco in the front rank of American cities，while her facilities for acquixing wealth will be without a parallel in the history of the past．Located as we are，apart and at a safe distance from the convulsions，both civil and commercial，of the At－ lantic States and Europe，the capitalists of the East are already turning their attention to our mines as ai safe and profitable field for investment．Millions of capital from the Atlantic States and Europe are even now at the disposal of agents here for investment．These agents are met everywhere． They are seeking to purchase our copper ore and to invest in our coal mines．They have already made their appear－ ance in the Mining Stock Exchange，and the day is fast ap－ proaching when their bids will run up our leading dividend paying Stocks to a figure little dreamed of on Montgomery

COPPER．
New discuveries of copper ores are are constantly be－ ing reported．The late remarkable developments．in Cala－ veras County，and the promptness with which capitalists are coming forward to encourage operations in this branch of nitaing，has given a wouderful impulse to this new depart－ ment of industry．Many that are conversaut with the cop－ per developuents in the Oounties of Calaveras and Maripo－ sa，think that it will not be more than five years ere this new interest will eclipse in value and importance the gold mines of tbose caunties．
Considerable excitement exists in the vicinity of Jackson Amador county，in consequence of new and and rich copper discoveries recently made near the Mountain Spring House． The Dispat：h says the rein itsupposed to be the contioua－ tion of the Copperopolis and Campo Seco rein，and has been traced for several miles．The Amador Ledaer says that Dr．Newton＇s Company were the first to work a cop－ per lead in Amador County，and they are taking out large quantities，for which they receive an advance of $\$ 50$ per ton at the mine．Other Companies are being formed，and will soon be at work．The copper range is suppnsed to be about one mile in width，extending from some place south of Cop－ peropolis，thence through Copperopolis and Campo Seco in Calareras County，Mountain Springs in Amador County， Michigan Bar and Folsom in Sacramento County，and thence away on up beyond Nevada，in all of which named places copper ore or its indications have been discovered．
J．E．Oliphant has obtained some very fine specimens of copper from a depth of 28 feet below the surface in Mon－ tezuma，Tuolumne County，near the Zinc House．
The late discoveries in Nevada Coupty are in progress of development．Another discovery is also reported on Mc－ Carty＇s Ranch，about two miles from Grass Valley．Several discoveries have also been made a short distance below Grass Valley，of which more particular mention will proba－ bly soon be made．

Copper has recently been discovered about ten miles from Auburn，and a Coropany has been formed with the intention of giving it a thorough prospectiog．A lead has also been discovered in Green Valley，Placer County，which is report－ ed rich．
Del Norte，Mariposa，Calaveras．Amador，Tuolumne，El Dorado，Nevada and Sacramento Counties are now fairly in the field as copper districts．Developments in other Coun－ ties may soon be expected as a necessary result from the at－ tention which is now being turned in that direction． TIN，
Tin has been discovered in several localities in this State， and we notice that a Company to be known as the＂Orio Gold and Silvir．Mining Company，＂was incorporated，in this city，on Wednesday last，to work for tin as well as other val－ uable metals in Santa Clara County；Daniel Driscoll，A．S． Barcley and C．A．Mathiew are the Trustees．The Herald in noticing the formation of this Companysays：＂We have sufficient reasons for believing that the parties composing this Company have a very＇good thing＇in the shape of an extensive tin mine，which is situated within a day＇s drive of this city．It appears that the riches of cur gloricus State are just beginning to be developed．＂

## S！LVER．

A Los Angeles correspondent of the Bulletin gives some wonderful reports of silver discoveries recently made near La Paz．Ophir and Gould \＆Curry，according to these ac－ counts are entirely eclipsed！It would appear that the apoc－ ryphal Indian stories of gold and silver bullets；and nuggets， lying around loose，might yet be proven true．Bat，as the correspondent remarks if there is any truth in these reports we shall soon hear from them again，in a more definite and eliable manuer．
New silver discoveries are still reported in our own vicini－ ty．Reist \＆Co．，proprietors of an extensive quartz mill．and a rich vemn near Rawhide Ranch，in Tuolumue county，are putting up apparatus for extracting the silver from the ore found in their rock．They have lately ascertained that their rock is nearly as rich in silver as in gold．
According to the Calaveras Chronicle of January 3d there was quite an excitement in that place during the latter part of the previous week，caused by the discovery of suppo－ sed silver mines in the Blue Mountain Range，some thirty miles east of Mokelumne Eill．The Chroniclesays：－＂The ore assays rich，and quite a number of claims have already been staked off．If the lead proves as good as expected，w $\epsilon$
shall havo as rich silver lodes in this county as there are in Whathe. The pmakern of the Corporation tet by the Nevada Territorial lagistature, will induce capitalists to invest in silver leath on this side of the mountains."
The Maripusa Grizutle pronounces the rucently discovered mines in that lucality as realities worthy the atteution of the community

## COAL.

It is said thatan extensive bed of superior coal has been discuverell on Iry Creek, near Fulsom. Preparations are being made for its proper development.

## SULPHUR.

Mr. Wuntaman, according to the Territorial Enterprise of V'irginia City, haz brought to that office several specimens of pure sulphur which had been taken from a small mountain of that material, situated about twenty miles west of Unionville. The Enterprise adds:-"That locality may bo in close proximity to the lake which burneth with fire and brimstone, and it mng not-yet we are of the opinion that this item will change the destiuation of a good many moderate Christians who are now preparing to emigrate to Eumboldt. Hovever, it will give the regulars a better chance than they generaly have in mining regions."

## TEEE "DIMES" AND "WIDE WEST" CRONTROVERSY.

Some little exciteraent has recently been created in Es meralda mining circles, by reason of an injunction suit brought by the "Dimes" Company against the "Wide West," the former holding the exteusion of the latter. 'I'he facts in the cis" we beliere are substantially as follows :-The "Wide West" and "Johneon Co.," now consolidated, own a contrulling interest in the "Dimes" Company; the stock so held standing in the name of T. W. Ly'e. The minority of the "Dimes" property holders desire a division of the property, and to that end have brought a suit, and obtained an injunction against the working of the "Dimes" ground The "Wide West" Compauy are not working upon that ground, and fur the present, at least, do not desire to do so. They are confining their operations to their owa original ground. It appears that an effort is being made to mystify the true character of the controversy, and thus depreciate the 'Dimes' stock for speculation.

We have just examined, at the office of Thomas Ogg Shaw, 422 Montgomery street, some very rich specimens of gold quartz, taken from the Copper Hill Lead, Sierra county, Nevada T'erritory.

## GENERAL MINING STOCK REPORT.

## San Franclisco, Jan. 19it, 1863. Stock Remarks.

The businoss of the prat weot, although very caosiderable, dnes not equal in anount that of the weak previnus. The incerease of bu siness for
tho two weeks past may be attributed, to sume extent to orders from abroad for ngeuts hero to iovest in well established mioes,
Ophir has declined $\$ 200$ during tho week, with no apparent cause. The necounta from thefmine to date, fully confirm the favarable roports of Jast week ; the "rich strike" north of the Mexicna is now known to be a reality and more very rich ore in a gallery, just opened, is roported.
Gould and Curry has advacced nother hundred during the past weels, end have been made as high as $\$ 81$ per foot, aud $\$ 100$ is confidently expected by mauy of its friends, after the present mouth. Twenty of the forty stamps are dow in operation, and the other tweaty will probably be atarted to-morrous or lay after.
Savage is stlll improving. It is qurok in the market, and jabares are freely taken when offered at anytbing near the market price. Sanborn \& co. placo it amog the first class, and quote a sale at $\$ 1,010$, although the general rauge of this strack, during the week has been from 800 to 900 dollirs. Efile \& Norcruss has not been much in demand, during the week, It is held firm at $\$ 125$ to 130 .
Chollar has not been as nctive as last week. It started on Monday, at the
Board at \&410, and fully maintained its etund during the week. The delay Board al $\$ 410$, and fully maintained its atand during the week. The delay iu the decision of its suit with the Potosi, renders bidderars a little slyy. Thls
decieion is anxiously looked for. Putosi is still adrapelng. On Friday and Saturday it stood at the Board at an udvanco of from 25 to 30 over the last week.
Burning Moscow, as intimated last weok has materially advaneed-from 10 13 dollars to the foot. It is now quoted at \$s $7 / 2 / 2$. Farther advances are aur ticipated.
Sierra Nevada declined somewhat at the close of the week, in consequence of an assessment of $\$ 15$ per foot being lovied by the Company, on Thursdny last. The depreciation was about equal to the assessment. Cunbiderable stock has chraggd hands during the week.
Norton which has been very quiet for several weeks and scarcely quoted at all, tonk a sudden start this weelk in consequence of the report that the C ompauy "had struck it rich," , bing up from $\$ 14$ on Monday to $\$ 841 / 2 \mathrm{It}$ is
deyth if 200 feet from the gurfaco-thus fuily eatablishiug the parmanoucy of tha ir milies.
Thu Dathey, which was not heard from the week provinus, had buyers, last werek, at trom 100 to 200 thellars. Thesir fued mill, it is expeoted will go

Iowa in yruted the past week ut from 110 to $\$ 120$-Very ittlo dono

## ESIERALDA STOCKS.

kianerulina Siocks appear tu bouttractug much moro attention in thin market than firmorly. We would cill attuntion to tho motice in awother column or thu Muing stwek Raserd recently established there, and in the atock transartions reported in their approperinte place. This repart it will bo notfcel la momewhar ancent-but is tho latest which han enme to hund at biv ullioe. Our friende of the "Star" have peglocted us tho past weak.
Wide Went still continues a live inatitution und is rapidly ndvancing to the ruthe of a first class mine. It has improved from 40 to 60 dollars the pust wuek and now stauds firm at $\$ 100$. The Company are tuking out from four to tive tbousad doltars a week, at tho present time, from a very smat, itefficient mill. This stoch will doubtlose continue to advance rapidly for sume time to cume.
The Antolope has also mato a large adraneo, fully 50 per cent- on tes las week's rulus. If is now quite firmat from $\$ 200$ to $\$ 215$.

## REPORTOF ALES

At the San Francisco Mining Stock Board,
For the week ending Jaunary 17,1863.


Rodie Blafl Consolidation- 30 feut offerod at $\$ 10$; bid 6, cash.
Ural-10 feetoflered at $\$ 250$; whe 200 , on 30 days.
fina 40 fert offeredat 85 ; Und 350 , cash.
Mount Braley-30 slaterea niffered ut $\$ 25$; to bid reported.
Perts (two feet to the Ahare) - 26 whutes olfered at $\$ 0$; no bidders.
Garluald- 10 shares ufferel at \$25; bul 20 , cash.
Henth-ofiered at 810 ; wo bidders.
Falls of Clyde- 100 whares offered at $\$ 5$; to bldders.
Old Winemucci-30 feet offered at $\$ 10$; no biddera.
St. Louis-\$12 bid; no stock offered.
Hanover- 20 thares offered nt s26; bld 12.
Live Yubken-2 8 sharms oferud at $\$ 10$; bid 8.
Nevads-25 alures offered at $\$ 10$; wo bidders.
Del Modte -12 shares ollerod at $\$ 20$; bid 15 .

## WASHOE STOCK REPORT,

[COMTLLED FROM tTm Dall Tgrriorlat, Entarpase.]
Monday, Jan. 5th.-3tiaing operations are still being carried on with quite as much vigor an et any provious time daring the senson. The wea. ther bas thus far been extromely favorable for wiutor operations. The Duou Company'a ground still continues to present tavorablo appear. unces, and can be soid at low rates. The indicatinns are tbat the ledge insproves with its depth. The Sinola Company expect in reach their ledge soon, with their tunucl, which will strike it at a depth of 150 feet. The atock of this Company is chicfly beld by the original locators. The Unina Company have lately bud about Co tons of their rock crashed, which, though not rich, gives encouragement for further prospocting, the mine oridently improving with ita depth. Stock in demand at low Ggures. Hawel Greon and Dirgau are quict in the marset.
The Lafayette Company, Guid Hill District, the chief part of whose stock recently passed into the bauds of San Francisco capitalists, presents favorable udicutions. It is believed the enterprise will prove a paying one. Tweuty leet of the Bloomingdale eoid, to-day, for $\$ 4$ per foot. Birdsall has been eqquired for at $\$ 20$. Tweuty feet of Batic sold for $\$ 17$ per foot.
Tuesdey, January 6th.-The Summit District is beginaling to attract some attention among miners who are willing to eugage in prospecting the various leads in that locality. The Flowery Hill Company have struch some very rich rock in their lodge near the surface. They are ugw engaged in rumning a tumnel, to strike their ground at a depth of fify feet. Several Accountr from Palmyra continue favorable to the success of the mine in that District. Flowery diggiugs are not gevoraly, in demand. Claims in this locality are looked upon by those secking to invest, with a shade of suspicion, as to their permanency; the developments, thus far, having pro-
ved uufayorable for the future sticcess of these minos. There are several, however, which have been found rich at tho surface, but which have not yet been proven at a sufficient depth to determine their, real value.
But few claims in the Devil's Gate District are esteemed of much value. The Pride of the Weat may be set dowa as the ouly claim in this locality which is being successfully worked, or promses fair for future prosperity. The stock of this Compauv dues not appear in the market.
Buchanan is salcable al $\$ 60$ per foot. Ashland 18 without buyers at $\$ 10$. Zouave is offerod at $\$ 8$ Union 18 bffered at $\$ 10$, with no demuad; Hazal Green at 5 , and no sales, and Oriental is offered at 4. Operatious for the day limited and sales unimportant.
Wednesiay, Jan. 7th.-No sales of importance quoted. El Dorajo is reported at $\$ 60$; Utab at 45 ; Senta Rita "t 35; Zquavent 7; Gov. Nye at 6; Madison at 25; Fairvew at 20 Cedar Hill Tunnel at 4, 50 ; Baltic at 20; Ha zel Green at 5 and U . S. Tunnel at 750 dollars per quarter share.
Thursday Jan. 8th.-Littic busiluess, of note, was done in stocks to-day. It is a gratifying fact, however, that the limited number of transfers durjug the past week, is due more to a disposition on the part of the bolders to wait for an advance of prices, than any reluctance to invest on the part of capitai. Thi members of the Sacramento Company werc somewhat elated, to-day, by receiving the returns of some ore from their mine, crushed in this city, at Braulhhiw \& Co's Reduetion Works. Tho result of the crushing was $\$ 1,11342$ in gold, and $\$ 1057$ in silver. (We gave the item in our last issue.) Such a handsome return of ores from a secnad rate lam in the Tertitory, remarks the "Euterprise," is extremely gratifying, and affords additional evidence of the almost incalculable mineral resources of our gold

## and silver mines.

Friday, Jan. 9th, -A small lot of Palmyra stock has been preaented in this market, at rates which would no doubt bo esteemed low by those convernin with these claims; but, as yet, there is no especial demad the stock in that district. Some activity is manifestod in La Crosse, whether
from any new developments made in the claims, or the small demand for from any new dovelopments made in the claims, or the small demand for the stock, is not reported. Soveral trassactions, it is -said, have been per-
fected to-day, at prices above the usual rates. fected to-day, at prices above the usual rates.
Ashlaud is offered at $\$ 10$, Madisou at 20, Burniug Moscow at 65, Sierra
Nevada at 65 and Santa Rita at 40. $\$ 16$ is offered for Burdsall and 1750 askNevadr at 65 and Santa Rita at 40. $\$ 16$ is offered for Burdsall and 1750 ask ed. Hazel Green and Oriental are offered at low rates without aales. Saturday, Jan 10th. -The stock trade has been rather brisk tooday, although no vory important business juas beon reported, Elghteen feet of the Oriental sold for $\$ 550 ; 30$ shares Cedar Hill Tunnel $450 ; 15$ feet of El Dorado, thirty days, $70 ; 10$ feet Birdsall at 17. Some Gold Hill ground cbanged hauds, but the figurea are not reported. Madison is quoted at $\$ 25$, Peach-Faxten at 35, Baltic st 19, Zourve at 8, Hazel Green at 4 50, Geller a 6, Burnaide at 10, Fairvlew at 20 and Sacramento at from 35 to 40 dollars.

## HUMBOLDT STOCK.

Considerablo Aumboldt stock continues in markot, but aside from the Mars, Cuba, Sheba, South Extension of the Sheba, and three or four other claims, there is little or no inquiry in that direction. There is also a large quatity of Eagle and Silver dfonntain district stook, but ent|rely. Fithout buyers.
The following stocks, not enumerated above, are in the market in Virgin

## in City, and held at the figures anuexed :-

At the first meeting of the Esmeralda Stock Board, hold January 2nd. 3863, the following business was transacted in stocks, as roported in the Esmeralda Star
Wiul West-new stock- 25 feet offored at $\$ 400$ : bid 350 on 00 daye Antolope- 50 feet offered at $\$ 150$; bid 125 on 80 days.
Utah-25 feet offered al $\$ 50$; bid 40 on 80 days.


Subscribe.-Are you a miner and not a subscriber to the Maning axd Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, can not be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you eve send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry ol the country as the Mrs ing and Scientific Press. We invite all to send us their names and four dollers, or two dollars for six months, and become patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is notio our usual custon to receive a subscriber for less than six months; bat inasmuch as we are anxions to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant reader of it for even that short period.

One Year's Treasure Exports.-The shipments of treasure from San Francisco, during the year just closed, were as follows:
To New York.
.\$26,194,034 93 12,950,139 61
" England
2,660,755 29
"China. 660,755 29
"Japan.
"Manilla. 65,651 64
" Australia
12110
East Indies.
62,414 00
Panama. 434,507 79
Hawaian Islands.
3,00000 10,00000 5,000 00 188,221 71
"Mexico.

Total.
$\$ 42,561,76107$
Drawi Ofr.-The California Stage Company have ceased running their stages on the Henness Pass route for the winter. Canse-the almost suspension of travel to Washoe at this season of the year.

## Astromonical observations were first made at Babylon

Recent Patentis-Granted to California Invenrors through the Pacific Patent Agency.

Hrrman Camp,-Patent for Quartz Crusher and Amalgamator.
W. H. Ruceardson-Patent granted for Washing Ifa chine.
E. E. Matteson, Nevada: Hydraulic Derrick. This invention has been illustrated in this journal, and has obtained great celebrity throughout the State.

Elander Heath, San Francisco; Spiral Spice and Sage Mill. See "Mining and Scientific Press," June 9th, 1962, Vol. V., No. XII.
G.F.Deetcen, formerly of Nevada: Apparatus for separaling Gold from Pyrites. This is one of the most useful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to have obtained greater results than others engaed in the sarae occupation. Mr. D. has recently established himself in this County, on the San Bruwo Road, near he Islais Creek, where he has erected chemical and metallurgical works.
C. W. THOBAAS, Plaiuiug Mill, California street, facing the Mission ${ }_{\mathrm{m} 1}^{\mathrm{R} . \text {. }}$

URNER, MAREAH \& USGDOD, Successors to C. O. Turder \& Co
of Wiues and Liquors, S. E. cor. Front and sacramento sts.
$\mathrm{D}^{\text {R. J. B. BEERE:-Dentist, } 617 \text { Clay street. All operations on the teeth }}$ permed in the most stillfill and approved mauner.
KLLY \& WADE, Importers and Dealers in Paints, Oils, Turpentine, Et
Nos, $105 \& 107$
Kalifornla street, Bet. Davis aud Front.

## sUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general ule, any invention which is valuable to the patentee io this country, is worth equally as much in England and some other foreign countries. Fuar patents-A Aerican English, French and Belgian-will secure an inventor exclusive monoply to
his discovery among one hundred millions of the most intellihis discovery among one b
The facilities of business and steam communication are suct, that patents can be obtained abroad almost as easy as at bome. The majority of all patents taken out by Ameri cans in foreiga countries are obtained through the Mining and Screntific Press Patent Agency. Having established agencies at all the principal European seats of Govern ment, we obtain parents in Great Britain, France, Belgium. Prussia, Austria, Spain, ete., with prumptness and dispatch.
Models are not required in any European country, but the utmost care and experience is necessary in the preparation of the specifications and drawiogse
When parties intend to tak out foreign patents, engravings should not be published antil the foreign applications have been made.
Cabtion.- It bas become a somewhat common practice for
agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heading such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrast their cases to the care of a competent, reliable agent at home.
While it is true of Most Euronean conntries that the system of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should bave their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex. amination ; as it is a common practice when a patentee finds a purchaser for his invedtion, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable iovention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.

Our Mint, its Rules, Charges and Operations.
In the columns of a contemporary we observe some ex ceedngly interesting statisties of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 1857, while the actual loss was $\$ 266,31286$, exceeding the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superinteudency, the legal limit was $\$ 235,38639$; While the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fret, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twenty-
two per cent., against two per cent., wasted by our branch mint. The total expenditures for three years under Messris. Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expnoditures los four
years were but $\$ 1,150,64814$; white the difference between years were but $\$ 1,150,64814$; White the difference between
the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100000$ in faror of the latter. On retiring from the Superintendency, Mr. Hemstead left an unexpended balauce of appropriation due the mint of up
wards of $\$ 86.000$. This certainly is a capital showing for wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin
tendency. Under Mr. Stevens, the present Superintendent, tendency. Under Mr. Stevens, the present Superintendent,
we have no doabt everything wil work in an equally satis factory manner.

For parting silver from gold when gold
is below $300-1000$ ths. fine.
from $300-1000$ ths. to $750-1000$ thi fine. 7 cts per oz. $750-1000$ ths to $950-1000$ ths " .14cts
Deposits Silver Bezlion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contrined for coinage.

Refining charges (only where gold is contained) propor
tion of goid 1 to 300 , 3cts, per oz. gross weight

## Deposits for Fine Bars

$\$ 116-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross
value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in parchases.

Bars Sold From Refinery.
$\$ 1$ 21cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

## Deposited for Dollars.

\$I 16-4-11ths. per standard oz. $1 / 2$ per ct. gross value for coining, when gold is contained, refining charge the same as purchases.

## Deposited for Imported Bars.

\$1 16-4-1lths. cents por standard oz. $1 / 2$ per ct. gross
$C O R N S$ AND BUNIONS REMOVED
DR. BYRON C. KENNEDY, practical CBIRopodis ate of Philadelphia, ${ }^{\text {w would most respectfally inform the ci }}$ zens of San Francisco that he has opened his office at No. 12 Montgowery street, opposite the Lick House, where he il prepared to remove all excresences, such as Corns, Bunions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frostea, Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic U8 cers, and all other diseases of the Skin. He may be cons sulted at his office, No. 12 Montgomery street. opposite the Lick House, from 9 to 12 A. M., and 2 to 6 P. M. Haviag deroted six years of study to this important, bat too much neglected, branch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors of Philadelphia, and having made this branch of surgical science my speciaility for nine years, enables me to operate skilully and successfully. In England, Frauce and Austria the highest prizes are often awarded to practitioners in this
branch of surgical science, and it occupies with others an equally lotty position in the profession.
Voizin is an illustrious example, a shining light, among
he philosophical stars of Europe, and Dr. Byron O. Kennedy has fuliy equaled him in this country, as a proof of which he Faculty of the University College of Philadelphia, Pa mplimented him with testimonials.
Dr. Keninedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now remarded as the leader in this country, in this brauch of the profession, throughout the United States.
The following letter, which emphatically speaks for itself, of Philadelphia:
Dr. Brron C. Kkxisar: Dear Sir-Lenrntug that you are going to take your departure for california, and wishing to infurm the citizens of telphin and also the people of the State of Californint the esteen of which we hold you, and knowing that notbing is more essental to your
than the eucouragement which Fou may receve from the people of delphin, in the midst of which is the plitground of your boy hoo
knowiag that you bare devnted years of sturly to this important knowiog that you bare devnted years of study to this important but much neglected branch or human knowledge; that you have attained to the
bighest runk in ynur profession, several of the Faculty and other prominent highest rank in your profession, several of the Faculty and other promiwe
citizeus of Philadelphaia having submitted to your manipulation, we cau citizeus of Philadelpha haring submitted to your manipulation, we can
commend you with conffilence to the citizeos of Eun Fradcisco, as one of mast skilful surgeons of the age, and we hope your success may be such an
will repay you for your years of study, and har you may fiod a broad feld or your exertio sin the new and growing city of ibe Pacific.
THE EYES! THE RYES! THE EYESI!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Francisco Deof, Dumb und Blind Asylum.
After a protracted blindness of more than five years, Dr PARDFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practic ing with a success that cannot be surpassed in the United States; and as proof of this he substantiates by many ca-es now in California that have been cured by hina, alter having exhausted the skill of the eminent physicians and oculists o New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 1 ears, Dr. Pardee asserts, and is prepared to prove, that there has been more blindness from bad and improper treat-1 ment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on inquiring what bad been formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone; I was bled and blistered, theu cupped two or three times week-had a blue pill prescribed for me at night, and salt in the moruing-was ordered in a dark room-to keep my eyes tightly bandaged-to avoid the open air and exercise with fifty other inconsistencies, the aggregate of which sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but burn them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and fol lowing theories the most erroneous, and destructive to $t$ eye. How much more rational and consistent to consult an experienced Oculist, who thoroughly understands every die ease of this tender organ in all its aspects and varieties. Dr PARDEE has from sixty to one hundred patiects under his daily supervision, and, with but very few cases, they have been treated by other physicians hefore applying to him-and
all to no benefit. Those wio are doubtful are permitted to call at Dr. Pardee's office and confer with the many patients who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Arti ficial Eyes on this coast, jnserted, having all the movement of the real eye, and that theylook so life-like that no one c tell them, when properly inserted, frcm the real ere. Thes eyes are sold reasonable.
All the operations performed, such as "Strabismus," cross-eyes-" Cataracts"-or removal of the Lens by absorption or extraction:- "Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&e
Hotel-old No. 217, up stairs.

## Regariling Patents.

We desire to call the attention of all those who intend We desire to call the attention of all facter, to our surior facilities for obtaining e sume. Our arrangements ure such that we can have nll "papers prepared hansmitted and returned, with the Patent
infte. in three months from the time the applicant places bunter into our hands; thus saving at least three onthe delay.
The expense to the applimant would be rather leas, if the asiness be done by us. than if the papers were sent to ew York or Washington.
Thus by patronizing a home institution, our inventive dizens can save both time and money
We have prompt, intelligent and reliable agents in the y of Wastington who attend punctually to all Patent asiness sent to them. We have agenta, also, at Iobion arme, Brussels. Ilamburg, St. Petersburg, Berlin, Vienna di other European capitals.
Pacific Patent Auency.....J. silversmith,
Sohmeror.
ACIEIC MAIL STEAMSFIP COMPANYS Ine in PANAMA


FOR PANAMA,
a Poliowing Steamshipe will bo dispatebed in the month of January, 1883. Oth-st. Lucls, C'nptain E. S. Farnsworth
21st-nOLDEN AGE, W. II. Hudson, Commandor.
It leave Folsome Strent Wharf, whth Passongers and Trensure, for Panama at a D'coock, a. M., penctulliy,
d connect, via Paunoma Ruilroad, at Aspinwall, with steamships for N. York
A. B. FORBES, Agent.

Je4
Corner of Eucrameato and I.einesderff sts.

## LATEST IMPROVEMENT

(n LADIES' BUCKLES.
1R. RETCHEL RESCCTFCHIY ANYOUNCFS TO THE LADIES OF THIS 1 Stute, as well as to Jewelers nod dealers in Jewelry, that he has made portant improvements in BUCKLEs, which surpass any and all heretopet useful as well ns orbamental trinkets.
Orders trom the country respectully solicited. For particulars call at or frederik reichel,
Yanufacturisg Jewelor,
620 Merchant street, San Francisco.

## REMOVAL.

FFICE OF THE PACIFIC METALLURGICAL WORKS is removed to als Caliornia slreet, Haviug enlarged our Works at
th Beach, wo are how enabled to reduce from 10 to 15 tons of Silver or ld rock per day.
uced or purchaned.
'OPPER OBES-Higheat OPPER OBES-Higheat market rates onvanced in cash, for shinments.
S. C. BRADSHAW, Agont,
nyso
318 California street, near Sansome, up stairs.

## WRIGHT'S PICKS.

- 

IIN WRIGAT, of Sacramento, has establasned nimself in San Francisce Cor the manufacture of every devcription of 1 ICFS', of the boat material, rates Orders from the couutry promptly attended to. N. B.-None uine unless stamped with my name.
$\begin{aligned} & \text { JOHN } \\ & \text { JRIGHT, } \\ & \text { OLI Market atreet, }\end{aligned}$
Opposite Battery, San Frarcisco.

## Labor-saving <br> Rock Drilling Machines.

TO ENGINERRS, RAILROAD CONTRACTORS, TURNPTKE, AND QUARRYmen. The subscriber. Patentee and Agent for GARDNGIR's PATENTS HAND, HORSE, AND

## TEAM-POWER MACHINES.

The Hand Machines are oxpressly adapted for workiag in Tunnels, Gaillo-
\$, etc. 1 ne man performing the lathor of threo in tho ordiuary way.
FUUR-HORSE POWER MACHIVC aper FOUR-HORSE POWER MACHINE, operated by oue mau, drives a ma
Ine capable of drilling a four to SIX inch diameter bole in granite four fee He capable of drilling a four to six inich diameter hole in granite four feet Wh, and it hard limestone, six teet per hour-che rapidity of the work chive, and its entire witl becoss sureducing the the practical working of the
the of the former expense, aud ou a rock exing holes to oneTh of the former expense, sud ou a rock exenvation of ung hextent, from
y to seventy-five per cent. on the entire work. Responsilite Wo rock excavations to make in any part of the State, the subseriber will st tweuty- tive por cout. over any other process. 7. Address orders to Fremont street, Wet. Market and Mission, San Francis

# A. ROMAN \& CO. 

wholesale and retath
BOOK ESTABLISHMENT.
417 and 413 Montgomery street, SAN FRANCISCO.
(0)- Orders respectfulsy solicited und promptly attended to.

STratiso on Mutulutgy, Comprising Minang and Geaeral and Partcular Motallurgicul Operntions, Eitc. Etc. By Firederick Overman.
A Munual of Metallurgy, or A Practicn Treatise on the Chomiatry of Metale. Samal of Metallurgy, more particularly of the precions metals; but inelud iug such othor's as ure employed in dental practice.
Records of Mining and Motallurgy, or Facts and Memoranda for the Use of and John Darlington Phggot un the Chombitry and Mining of Cupper.
Practical Mineral Asay ing aud Mlining Overman
Practicn Mineral Asmy ing aud Sliniug. Oyerman.
Gold Mimmg and Astavomg: by Phins,
Siners' 'mupanion and duide, complled by Silversmith.
Assayers Gude' ir Practical dircetious to Assuyers, Miners and Smelters, Yructional Assighing, by Michell
ilver Ores and Silver Jimese, by
Mrer otrs athd silver stmes, by Pro. Blake.
Welsbard's Mechanies of Manachinery and Engines,
Nerbllo's Hydraulic Formula Tables.
Fres'nhen' Chemical Analysis.
Togethor with many other worksin this \& similar lines
ny. Bnoks imported to order on short notice. Cea

## A. ROMAN \& CO., 417 \& 419 Montoromery Street.

Gird's BUDDING KNIF' T THE ATTENTION OF FARMERS, HORTICULTURTSTS AND CUTLERS, OR invention. For deseription and engraving bee Minjeg and Scimatifio Presy No. 24, vol. v.
State, Terrritory aud worksbop rights for sale at reasonable prices. Adilress,
sepl-3m

Sall Francisco.

## 3ur Beathtung für Erfinder.

Erfinber, meldie nidit mit der englifden Spradje befannt fint, fornen ihre Mittheilungen in ber beutiden Spradie madicn
Etizzen von Erfintungen mit firzen, beutlici geífriekenen Beidreibungen beliefe man zu aboreffiten an.

Jud. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS,

131 Montgomery street., bet. Bush and Sutter, SAN Trancisco
wholegale akd retall deaters in
PIANOS, SHEETETMUSIC INSTRUMENTS OF ALL KINDS, dic., dic.
A. A. Gale \& CO., New York;
T. GILBEHT, Boston;
C. MEYER, Philadelphia.

Whose Pianos they have always on hau

## Planos for rent.

New Music received by ever"y steamer: New Music pub-
shed: Music assorted and bound in the best style. A liblished: Music assorted and bound in the best style. A
eral discount made to the tsade and professors of music.

## MUUSIC! MUSIC !! MUSIC!!!

A. K $\overline{O H} L E R$,
tMporter of eyery description of
Musical Instruments and Musical Merchandise, Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.
Lighte's New Patent Insulated Iron Frame is put into all of Lighte \& Bradbury's OVERSTRUNG PIANOS. RANK AS THE FIRST AND BEST All the leading tone, Musicicians of ton the cound durability. their superiority.
A. KoHLer,
Melodeons and Harmoniums, froon this curbrbatred manvenctory op

## MASON \& HAMLIN.



# Dr, Van Zandt, <br> Consulting Physician and Surgeon, OFFICE: <br> Corner of Washington and Sansome Streets. 

The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nature, Electricity! Made Subservient for the Cure of all Nervous and Spinal Diseases.

THAT THIS PRINCIPLE, succeasfully appliced to discassed statoan by physelastem, is to thid thew mbehicines in overcoming organic, and functiong tality knowr as nervoms lafluence and necesarily must have much to do in obviating diseased action.
In its praise ; for it is highiy probable that in health theere is nn exact equi-
 poise of health se brobeu or lowerud-should the body be negatively esec-
trified when it should be positively charged-is aot the curreut breken, und is there nol a war of forces going ou an tur system 9 This noods correcting, aud 14 order that the tissues of the body should be suscoptible to remedial agents wo must first restore aud

Awaken the Magnetic Life Within Us.
The spinal and sy inpathetic uerve systems. Beleving as I do most firmly upon uar bodies in health and diseuse, I inm lod to take adyantago of the prems, through which to awaken atteution to the subject, that good may
cumo to all.

Give the body strength, aud nature will relieve herself. Purify the life lood, render the stomach, liver, henrt, kidney and all the natural fuacthe nervous, the ulspiritent, the melanchulic, the dyspectic and the invalid revive under ita bengn mfuence.

## To the Ladies of California.

Dr. Van Zandt's success with complaiuts of women, both in family and office practice, is owing to his correot views of tha origin of all their maladies. Ladius cad cousult him with eutire coundence, as he is ao speculator
npon human ills-but is provitig lumself the only member of the legnimate profession in California who is really successiul ul removing those tlls which are the pecular province of the sex. His high uppreciation of their dell-
cately attued nervous organism, logether with their great sympathetie hife, reuders him doubly able to assuage those silent complatulugs which They bear so patiently nal so long. No social disquictude need longer aflict our home circles; for he can arwase tho striciren onergies ; reatore the
wonted louicity of the body ; awakno the melanclolic and deapobdings arwonted louicity of the body; awakno the melanclolic and deapjondings ; ar-
rest those draius which eause so much anxiety; cure those protean maladies whicu have so long
Baffled the Skill of Physiciang.
Develop appetite, life and animation, dispel nervous headache, siuking at
 end lifelessuess, hectic cough, aleeplessness, unpleasaut, drcarns aud that
general depression of life's powers, which go to reuder her life a misery general depression of lifu's powers, which, go to reuder her life a misery
and death a boon. Dr. Van Zaudt, with his uew method of exciting the and death a boon. Dr. Van Zaudt, with his bew method of exciting the
Electro-Galvanic current, together with his romedal masure which are Electro-Galvanic current, together win and radical recovery of all bodily and mental infrmities, and will restore you to usefulness, and spare you a bleesing to your tumily and co society.
Wherever disease exists, whether special to tho soil and climate or com mon to all regions-epidemic or casual, acute or chronic, contagious or non-
contagious- $1 t$ is as necessary to restore the ELECTRO-GALVANIC equihbri-coutagious- 1 is as necessary to rentore the ELECTRO-GALVANIC equihbri-
um, ospecially in California, as it is to give fuod to the starving. Chis statement is based upou a series of facts extending through many years, and experience, bo requit of any well known cause, rests upon more suro and uuassalable foundations, than those which underlie the world-wide reputation of Electricity for tho cure of all nervous states of the body, faulty digestion, hental und physical debility or prostration, coughs, astuma, wandering pains of a rheumatic, gouty or mercural character, and all forms of
None Need Despair or Relief
None Need Despair or Relier.
If you have ulcers which will not heal-pains that cannot be removed-
melancluly which you cinnotshake off-loss of power which you cannot gain-depression of spirits which weigh you down-wakefulness that knows no sleeping-business that languisbes for want of energy-a void which no gociety con fll-suspicion which no assurnuce can allay-Go to Dr. Van Zandt, for his great success, aud the safety with which he administers hia new method of electrical excitatiou, together with his remedies, which are radieul retnoval of all bodily and mental infirmities, within the scope of science and mau to remove.

The Eye and Ear Diseases.
It must not be forgutten by tho eye and ear sufferers that Dr. Van Zandt
has made these aflictinns an especial study, and that be is the ouly Surgeon en our State, who has a daploma for that branch of practice. Very many of the eyeand ear troubles are purely deranged uervous actions, and are cured by his electro-galvauic buttcry-as amausoris, squinting, cataract, tioating specks before vision, twitching of the eyelids, nervous deafness,
roaring aud buzzing noises in the ears, giddiuess, etc. All operations sucroaring aud buzzing noises in the ears, giddiuess, etc. Alt operations suc-
cessfully done on those delicate organs of sense.
Ofice-Coruer of Washiugton and Sansome streets.
$\qquad$ nov29-8m
FREDERICK KESMODEL,
Cutler and Surgioal Instrument Maker 817 KEARNY STREET,
Between Jackson and Washington streets,
SAN FRANCISCO
$\mathrm{R}^{\text {ECEIVED a diploma at the Fair of the Mechamics' Institute, September, }}$ Tu 1858, also in Sacramento in 1881 for California made Cutlory. The atioation of those afflicted with HERNLA, or Rupture, or any oue in-
terested, is called to his new method of fiting and adap ing Trusses to the difercat cases. It is a well known fact that there has as yet been no system of atting Trusses. There are many different atyles which have proven good in many cases, but they are all uncertain and canuot be $r$. lied on, and in severe cases are altogether useless. The following are some of the and in
tages I claim for these Trusses avove any and all others: First-The Pad is
for tages i chaim for these Trusses avove any and all others: First-The Pad is
formed on the parts to be compressed by taking a plaster cast. Second-
Having a correct model, it eunlules me to make wion material, such as horn, ivory, etc. Third-The Pad is so adjusted to the spring that no movement of the body will move or displace it. There are
many other adyanteges. Examine and judge for yourselves. wany olher adyantages. Examine and judge for yourselves.
FREDERICK KESMODEL,

The Occidental Hotel Open for the Reception of Guests.
$T$ mis House Has ALL TEE MODERN MPROVEct to the first class housts of the Alluatic cilies.
 convenience of the public generally, haviug a news
stand and large Cabinet for minerals; stand and large Cabinet for minerals, also, a Brancu
Telegraph offce connecting with all the lines throughout the country. LEWIS LELAND \& CO-,
San Francisco, Jan. 1st, 1863.

## To Mill Owners.


 Mime. Thic Applicant was eugagod for about cight ywars,
an Superintendent of Copper Miniog Works in Cornwal,
and has acted in the game capueity in Gold Mines in this as Superintatentent of Copper Miniong Works in Corrwall,
and has acted in the game capreity in Gold Mines in this
State for the nast seven years. He Has had much expe.
 a Dranghsman, a Surveyor and an Assorter of Copper
Oro. H ocan give ample testimanies as to his capacity
for the position he seeks. for the position he seel
Apply at this 0 office

## Attention! Attention

$A^{\text {TRACT OF LAND, EMBRACING AN AREA OF }}$ ances has recently beea surveyed and plotited out Acres has reeently beean surveryed and plotted out int lots, which are How oftired lor sale on reasoud Ale
termas as any ever offsred by the various Homestead A8sociations in our city. "The tract is buown as the "Uui-
versity Mound Survey," and derives its bame from the faersty than tho Directors, of the Uniserssty College have
felected a site of about twenty acres in the centre of the selecterl a sitio of about twenty unces in the centre of the
tract for their College Building and Park- This property tract for their College Building and Park- This property
is more beautiful than any ouker ever offered in thls is more beautiful than any other ever offered it this
market, aud its tocation is such that it must io the na-
then market, aud its location is such twat it must in the na-
tural progress of improvement soon be in great demand
for pinces of residence. That this property wit increas for places nf residence. That tnis property will increaso
in value, is as certain as the future of $S$ San Francieco. in value, is as certain as the future of San Francisco.
Toveetments in Real Estate, it is well known, have Tnvestments in Real Estate, it it well know, have
paid as largety as any other, aci insurauce against risk
of deprecistion in talue is secured by the sure and rapid fincreass of our population.
Invest in Real Essiate, and you will and it more profita. Invest in Real Essate, and you will and it more procta-
ble than investing in wild-eat miniug stock, or loguing ble than investing in wild-cat miniug stock, or loaning
money that mey be paid in depreciated currency.
m. The prices for lots in the ahove tract will reman uniThe title to the land is perfect. For further particulars appl

HARVEY S. BROWN, No. 19 Naglee's Building. $\begin{aligned} & \text { Lithographic Maps can be seeu and had at the above } \\ & \text { named ofile. }\end{aligned}$
no 136 mo

## V. SQUARZA's

Punch Factory.
 IVI know in this State for his Anti-Divorce Liquero may mentioiothat Mir. Squarras is aun fatit in the chemico.
distiling seience, hence the celebrity of his articles. Ho distilling seience, bence the celebrity of his articles. Ho
has two establishments for the sale of his famous Punch Which on Leidesiofre, the onstantly thronger on Montgomery streetWhich are constantly thronged with nur bou vivants.
The following is a list of his liguors all of which we have tasted, aud and them the most delicious and harmless beverages in this city, being pure, and uasdulteratod with drugs or other injurious che micals:
Rum Puach,
 us chemicals:
Strawberry Punch,
Whisky
Ko.
Kirchwasser do.
Cocoa do. Mornīng Con
Kuemmel, Kuemmel,
Brandy Coc
Anch-Dyspepsial, Bitters,
Ladies' Truis.
Ana CHAMPAGNES of all brands.

## WASHOE

Stock Exchange,
N. E. cor. Montgomery \& Merchant stat, SAN FRANCISCO.
L. W. NFWELL \& CO.

Buy and sell Wathoe, Eemeralda aud other Mrining
PHILADELPHIA BREWERY, Second St, corner of Folsom, San Francisco
Holscher, \& Wieland Proprietors. $T$ hannkful for past patronage to a discriminating
public, we beg leave to apprise at the same moment outic, we meg leave to apprise at the samee moment our muny friends and patrons that the above
well kown Browery has been permaneenty located in our new premises, on secoen serreet the former Tesi-
dence of Capt. Folson where we shall endeavor to condinuee of faprishing our wumerous patrons with the thont
tin
then article of "Bier." We shall strive to perpetunte the
good reputation for promptitude and the fanthfil exeeugood reputation for promptituae and the canthinl exeeu-
tion of orders as heretofore, and thereby increasec our custom.

FULTON FOUNDRY \& IRON WORKS. HINCKIEX \& CO.,
MANUFACTURERS OF STEAM ENGINES Quarte, Flour and Saw Mills; Cast Iron and all kinds of Machinery Amalgamators, Ete.

## Nos. 47 \& 49 First Street,

Between Market and Mission, San Francisco.
ALL kinds of Iron and Brass Castings furnished at shart notice. Every style of inisining to ron when cast,
Repairiug to Machinery neatly done Patern Making in its various forms. D. B. Hincleley, Wm. E. Worth. Wm A. Field,

DONAHUE'S Union Iron and Brass Foundry, Cornir of First and Migsion Strems, San Francisco.
The First Idstablighed in the State.
 Quartz Stampers, Amalgamatora, etc., otc., at redused
price. Have now the largest and beest Assortmeut of
Gear and Machinery Patterns in the State, a list of
and which will be forwarded to snyone desiring it, free
PETER DONAHUE.

## LEWIS COFPEY AND RISDON,

 STEAMI BULLER AND SHEET IRON The only exclusirely Boiler Making Establishment onthe Pacific Coast Owned and conducted by Practiral the Pacific Coast Owned and conductod by Practiral
Boiler Makers, All orders ior New Work, the repairing Boiler Makers, All orders ior New Work, the renairing
of Old Work, exocuted as ordered, and warrantod as to quality.
Old Stand, Corner Bush and Market Streets.


PALMER, HANSCOMB \& CO;
GOLDEN STATE FOUNDRY
AND MACHINE WORKS.
First Street, near Market, San Francisco,
$\mathrm{R}^{\text {ESPECTHULLY SOLICCTS ORDERS for all kinds of }}$ MACHNERY, for Mining and other purposes.
R MACHNERY, For Mining and other purposes.
Please send Pluus and Specifcations.
Having the most complete arrangements and appoint-
ments for finishntand exxcuting any and all kinds of monts for fanishing and executing any and all kinds of
Castings and Machinery on this coast.
San Fraccisco, November 29, 1862.

## GREAT REDUCTION

 in prices.STANFORD BROTHERS,
121, 123 and 125 California Street,
Keep the Largest Slock of all Kinds of
Iamp Stock
And will Sell Cheaper than any other
Howse in this State
Lamps, Chmineys,
Wicks, Camphene,
Burning Fluid,
Azcorol, Coal Oil,
TUrpentine, Kerosene Ow,
COMET ILLUMI CATING OLL,
Sperm Oit, Lard Oil,
Machinery Oit,
Rape Seed Oil,
China Nut Oif,
Polar Onf
Linseed ${ }^{\circ}$ Otr, Raw and Boiled,
Sharik's OIL,
Nearts Foot On,
Tanners Oin, Etc.
Our customers in particular, and the country trade generaly, are requested to aseertais our prices before pur-
chasing from traveling agents, as we will sell at less cansing from traveling regent
rates than they can afford to.

TO OWNERS OF WATER-FOWER
Beth's Hydraulic Pressure Wheel
THE SIMPLE, COMPACT, STRONG AND
effective mauner in which it is appled to auy height of fall, (3 feet to 800, ) and to any kind of machinery, will Save in Transportation Material and Labor, from 25 to 50 ;per cent. of the entire cost of the Structure to which it is applied, and proportionally increase its value.
Eor full information from the Inventor, apply at the Miners' Foundry, trom 10 to 11 A. ht., or addross

## J. M. BETH.

Miners' Foundry, San Frabciseo
This Wheel in fully actranterd. Jan19-tf

## Holiday Presents !

W ATCHES

## DLAMONDS

JEWELRY AND
SILVER WARE,

## BRAVERMAN \& LEVY'S;

g21 Wasmington street,
We cali tae atrention of our fridenn and
the public in general to our well ussorted stoct the public in general to our well ussorted stoc,

Of the latest and Most Fushionable atyles, which we have received by the last Steamer. AIso,

FRENCH CLOCKS,
PRECIOUS STONES,
Which we aro selling, SET or UNSET, at the very LOWIST PRICES. BRAVERMAN \& LEVY,
Dec 291 m


## LEANDER RANSOM, <br> Civil Hngineer AND

SURVETOR,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO
STATE LOCATING AGENT.
And as such having the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty por cent in cash and the balance
on a credit of several years.
OVFICE: Second floor of Express Building, N. E. corner or Montgomery and California streets.

## Agency For Patents.

$T$ He URDERSTGNED having been long established in the Patent Agency Business, and haviug favorable
angements for attending to the interests of inventors
 for the securing of Caveats and Patents ulso, will at-
ten to the saies of Patent Rights, and to all matters connectod with patented inventinos.
WETHERED \& TFFANY, Offce, 410 Montgomery street. Charles R. bond, (Late city and County Assessor.) REALESTATEAGENT,
No. 410 Montgomery street, San Francisco. REAL ESTATE PURCGAEGD AND SOLD, AND LOANS NEEOTIATED.

Hor Sale Cheap!
A horizontal STEAME ENGXNE O A 4. Horse Power, Fluc Boiler, in excellent order, origioal cost. Apply to JULIUS SLIVERSMTH, Federal Building, cor. Battery aud Wasbiogton,
W. T. \& J. GARRATT,

City Brass and Bell Founders Cor. First \& Maxket sts., San Francisco



 rall's Patent Improved Jourval Metal.

## F. G. BEPLER,

Practical Coppersmith
No. 118 (Old No. 2if) Bush street,
Between Sansome and Battory, Shy Franolsco.
Whilst thankful for the former confidence bestowed upon me, I desire to say tbat 1 am ready to malie and repair with cheaphess and dispateh everything in my
line of busincsas: especially all kinds of apparatus used in inc of business: enplecially all kinds of apparatus used in
Breweries and jistilleries: also. all such as are used.
where steam, spirits, or pumps of any kind be requil ed. where steam, spirits, or pumps of any kivd be requited.
Also, Kitchen utensils for Hotels, Restaurants and pri人 Also, Kitchen butensils for Hotels, Restaurants and pri-
vate houses. Balsing apparatus for Bakers and Confec tiouers, as well as all other kiuds of copper wark
All orders from the country promptly attended to

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
 ical process. Tielid in Sulphurets from "O to 50 per ceat
bigher than the BEST ANABGAMATION PROChiss. So Apparatus for separating Sulphurets sct un by ex-


SQUARZA'S PUNCH. HOME MANUFACTORY.

## wholisale and retail,

No. 44 Loflesdorif St, near Sncramentor Branch at 406 Monteomery street.

JULIUS SILVERSMITH,
Commissioner for Nevada Territory OFPICE, IN LATE STATE CAPITOL, Corner of Battery \& Washington streets.,
Room 23, up stairs.

WE WOUTD RESFECTRULLY SOLICTT FROM THOSR ed Territory, a share of their patrunage in all matiors res
 Lhe lrawing up of affi
ing of testimony, etc.

JAMES PHELAN;
(Late J. \& M. Perean.)
IMPORTER AND JOBBER,
Wines; Liquors, Etcy Etcu
Nos. 616 \& 618 Front street,
Botween Jackson add Pacific Streets, EAs Francisco.
Eatablished 1849 .
All Goods Guaranteed.
TERMS LIBERAL.
THEODOR KALLENBERG;
Maker of Models FOR INVENTORS.
$\mathbf{M}^{\text {achiniss, mathenatical, optical and philloson) }}$ $\mathrm{M}_{\text {M }}^{\text {ical Justrumenis, Scales, Weightes, ete.; }}$ Stamps, Dies sud Die surking, Embossings, etamps.
Repairing of Machinery promptly attended to. No. 4 Sansome street, corner Maxket,


DEVOE \& COS.' STEAM ENGINE MACHINE WORKS,
Comer Market \& Fremont streets,
A IL RINDS OF MACHINERY, SUCH AS STEAM $B$ etc., etc., made to order and repaired.
ALSO,
BLACRSMYHENG, TURNING, FINISHING, PLATIN
AND SCREW-BOLT Cutiog AGRICULTURAL NACHINERY made and repnired. Machines and Threshing Teeth rade to ord Hachines and Threshing reetil made to ord
Steam Engines and Boilers constantly
hand, and for salecheap. Scrow.Cutting and Turn
Lathes for sale.
DEVOE \& CO


A JOURNAL OF MINING, AGRICULTURE, MANUFAOTURES, SOIENCE, ART, CHEMISTRX, INVENTIONS, EIC.
VOL. VI. SAN FRANCISCO, MONDAY, JANUARY 26, 1863. NO. 13.

MINERAL PRODUCTS OF GREAT BRITAIN.
The statistics of the mineral produce of Great Britain, for the year 1961, are given in detail in a late issue of the Lon don Mining Journal, from which we condmse as follows Ti


Total value of minerals produced in 1851,
The above; it will be observed, is the amount and value of mineral ores produced, exclusive of gold. We give below the amount and value of metals obtained from the ores.

| Tin. | Tons | 7,450 |
| :---: | :---: | :---: |
| Gopper |  | 15,331 |
| Lead. |  | 65,643 |
| Silver | Ounces | 569,030 |
| Zinc. | Tons | 4,415 |
| Iron, Pig |  | 3,712,390 |

$\$ 4,371,656$
7,546,464.
6,937,224.
691.972.

379,784. $44,548,680$.

> Total value of the above
. $866,476,780$.
51,916.
Estimated value of other metals
Estimated value or other metals
Falue of conls- $83,635,214$ tons
1,202,400.

Total value of enetals produced, and coals. . $\$ 168,012,348$.
For the purpose of enabling the reader to readily institute a comparison between the mineral yields of the two coun tries we here append a table of the
mineral products of the united states for 1859,
compiled from the last census Report. It will be seen, on comparison, that the United States produce about two-thirds as much, in mineral value, as Great Britain. We compare the yield of 1859 witb that of 1860 in Great Britain. There is every reason to believe that another decade will place the mineral yield of the United States on a parwith that of England, and all her colonies added. The yield for $1859^{\circ}$ is as follows:-
Gold.
\$47,744,462
610,010
2,000,000
Quicksilve
3,316;516
19,487,790
72,600
977,281
28,176
91,365,765
1,092,450 2,265,302
\$97,659,252
:The production of silver in the United States has largely increased since the census was taken, as the working of the Washoe mines commenced about that time.

The great wealth and power of both nations lies in thei mmense mines of iron and coal. In the former, it will b seen that we as yet produce only three-sevenths of the amount produced by England. Of the latter we produce only one-fifth as much. In the comparative richness, variety and extent of miucral territory and resources, we infinitely excel Great Britain.
We further condense from the London Mining Journa the following

## REMARKS.

Goud.-The returns above given for 1861, contain the first actual report of gold from a British minè. This gold; 2;784 ounces, was obtained from one of the quartz lodes in Dolyelly, Mirionethshire, The natural consequence of this gold discovery has been the formation of several. Companies to work other lodes of a similar character in North Wales, in the progress of which considerable interest is felt among British mining circles.
Snver.-The silver, which appears in the above exhibit is nearly all obtained from the lead produced by the mines within the kingdom.

Copper.-The production of copper for 1861 shows a decrease to the amount of $\$ 683,548$ from the prodret of 1860 . But there was not as much exported in 1861 as there was the previous year. In addition to the amount of $\$ 7,546,464$ in values of copper produced, as per above exhibit, there was smelted of foreign and collonial ores an amount valued at $\$ 7.672,440$.
Tin.-The quantity of tin ore produced in 1861 was some what larger than that of 1860 , but about the same with the yield of 1859. The demand of this metal for the American market is reported as having greatly fallen off during the past year. The export of tin plate to the United States in 1860 was about $\$ 5,000,000$ in value. In 1861 it was only $\$ 2,472.912$. This falling off in the demand for tin led to a very material reduction in its price in the English market.
Lead.-The product of the lead mines of the United Kingdom for 1861 shows an increase or 2118 tons over 1860. Zrnc.-Owing to the low price of this metal during the year, several Zine Mines suspended operations.
Pyrites or Sulphur Ores,--The amount of ores of sul phur produced in 1860 was about 10,000 tons less than the produce of the previous year-which was reported 135,669 tons. The amount of these ores imported during the year 186193,528 tons ; quite an amount of this aggregate was made up of shipments from this State.
Iron.-The Pig-Iron produced was also slightly deprecia ted from the product of 1860. Means are being taken to obtain more accurate results as to the cost of producing ron in the various districts throughout the Kingdum.
Coak:-Much interest seems to be manifested at the rapid waste and exhaustion of English coals. The Report bofore us speaks as follows upon this head:-
The rate of exhaustion which is going on over our coal fields still increases. From 3,052 collieries there was used and sold in $1861,83,635,214$ tons; $2,500,000$ tons were wasted in the process of working, and burnt at surface on the
collieries of Durbam and Northumberland only. The total waste mast, therefore, have been very large, although information thereof could not be correctly obtained.

## RECENT INVENTIONS.

Electric Ligit in Mining.-A French inventor has produced an apprratus for an electric light designed for miners, which is said to be decidedly superior to anything yet introduced and perfectly safe from gas explosions, by means of a proper isolation. The apparatus is convenientand portable, and will burn for twelve hours without dimunition of light. The inventor hopes to still further improve the apparatus in sereral particulars-such as compactness, intensity of illumination, duration, etc.
Gas frox Comyon Acr,-M. Mongruel is the inventor of process for making gas from air, and the gas so produced is exbibited on Aldersgate street, London. The air is conveyed through a tube to a vessel contsining the matter which renders it ignitable, and from thence it passes to the lamp. The light is much clearer than that proceeding from the ordinary gas ; it is represented to be much cheaper, and the inventor announces that explosion is impossible.
Applying Waste Ebat from Core Ovens.-An invention which relates to the mode of atiliving the spare heat of coke ovens, for the purposie of heating air for blast-furnaces, calcining ironstone and ether materials, and for heating and smelting iron, has beenspecified by Mr. J. Harding, of Leeds, Eng. He causes the mouths of a group of coke ovens to open into a flue; which leads directly to the chamber in which the heat is to be employed.
Improvenent in Rolling Iron, \&C.-There is now in course of erection at the Dowlais Iron Works, a self-acting blooming machine for blooming railway iron, etc. It is claimed to be the greatest improvement made since rolling commenced. Mr. Oharles White, of the 'Taff Vale Rail Works, Wales, is the inventor and patentee.
Sewing Machine Mmprotemfnts.-A new sewing machine has been brought out; working two needles at once. It is intended to work on gaiters, boot tops, and other articles réquiring parallel seams: - Another inveation recently brought, before the pubiic is a button-hole-stitcher; which has beein adopted, and the right to use it is purchased by the leading serving machine companies. It holds the cloth steadily while the needle revolves Still another is announced, which in addition to performing all the styles of common plain séwing, will make any requisite description of embroidery, fringe, gimp, ruffling, netting, \&o., at the rate of a yard a minute. The embroidery is said to be especialy beautiful, and superior to the finest Parisian, and all the trimmings are better than can be made by hand, either light or heavy, and of various colors.
Moltiplicity or Patents.-In the official list of "Agricultural Inventions or Discoveries for the year 1861," are 25 bee-hives, 51 cultivators, 26 churns, 70 harvesting implements, 26 corn planters, 41 plows, 45 seeding-machines, and 19 thrashiog-machines.

## MINING NOTABILIA.

The Ophir.-The workmen in the Ophir mine, on Saturday last tapped a ledge-probably the Virginia-from which a stream of water flowed, in such quantity that the pumps were unable to keep it down. Asa consequence the works were stopped, at last accounts, from the water rising in the mine.
Tar total yield of gold from British Columbia up to Jan. 1st, 1863 , as reported by public shippers is $\$ 6,917,146$. These figures do not include the shipments through private hands. The amount so shipped would probably swell the total yield of the Colony since the first discovery of gold there to about $\$ 7,500,000$.

Esmeraids.-The-last Aurora Slar gives a good showing of the mining affairs in the Mono and Esmeralda regions. The "Bodie Bluff Consolidation," the "Julia Elizabeth," on Martinez Hill, and the "Monroe and Thatcher Tunnel," in Willow Gulch, all seem to be prosperous, with rich yields in the present and richer prospects ahead.
The Stock and Exchange Board recently established there meets with some considerable opposition on the part of a portion of the people; but the Star appears to think that it will prove bencficial to the District by driving worth less stocks from the market and enabling those who have really valuable stock to bring the same into notice upon their real merits, with an offic al character and place assigned them in the weekly authenticated reports. Much, no doubt, might be said both for and against the plan of this organization. Reports and transactions of this Board will be found regularly in our columns under its appropriate head.

Gold Mining on the Fresno.-The Mariposa Gazette, of the 13th January, says that the gold veins on the Fresno are paying well, wherever they are worked. Sevaral parties, in lieu of something better for separating the ore, are pounding the rock in mortars and making good wages.

Sale of a Moll.-"Winter's Mill," on Carson River, about two miles above Dajton, has been sold to the Ophir Company who will immediately erect crushing machinery on an extensive scaletcone husdred stamps being named as the probable complement of the mill under its new auspices. The water power is represented to be abundant.

Found tr Agann.-The Vinginia City Union eays that the Enterprise Company, on the hill a short distance west of town, after running their lower tunnel in aboat fifty feet, have again :struck their ledge, which is some four or five feet wide, and appears to be rich; in fact, there are none but rich ledges in that hill.

Minivg in Nevada.-The Nevada Transcript says: "All the ditches at Quaker Hill are full, and the miners in that vicinity have commenced operations. The claims of Jacobs \& Sargent have undergone a thorough overhauling. They are now ready to commence to take out thousands of dollars. Sneath \& Clay on Gold Flat continue to take out cart loads of rock filled with the bright ore. An offer of $\$ 100,000$ was made to one of the parties, a short time since, for one-third, and was refused."

Treasuse Shipment.-The treasure shipment per steamer Golden Age, was as follows :
To England.
\$1,336,894 07
" New York 354,921 29
" Papama. 35,000 00
"Acapulco. $5,000 \quad 00$

## Total.

. \$1,731,815 36
Corn for Fuel.-The Delzell steam mills at Alanta, Ilinois, are now running with corn for fuel instead of wood, that article being cheaper and more easily obtained than either wood or coal.

Pond's Ňew Quartz Mal.-This mill has been completed, and its first trial on Wednesday last, at the Miners' Foundry, which was made in the presence of a large number of experienced mill men, was pronounced a complete success. We defer any description of it until the engravings designed for its illustration in our columns are ready. We had expected them in season for the present issue, but have been disappointed.

## PROGRESS OF THE COPPER INTEREST.

The copper excitement appeears to be on the increase important derelopments are constantly being made in al most every direction. We have gathered up the following tems since our last issue :-
In Nevada county the Transcripl learns from "reliable authority that during the past four weeks upward of twenty valuable discoveries of gold and copper have been made in and aronnd that city. There are at least one hundred men prospecting for new diggings within two or three miles of the place. A new lead has been discovered about fifteen miles from the city, and a company of one hundred men has been formed for the purpose of working it.
The Democrat states that Mr. R. S. Whigham, formerly of Nevada, but now a resident of the Southern part of the State, was in that city looking after a copper mine which he discovered in 1852, and which assayed 30 per cent. He did not consider it of any value then.
A correspondent of the Daily Herald, writes to that paper a highly encouraging account of the progress of the newly discovered mines of copper in the neighborhood of Crescent City, Del Norte county, from which we condense as follows:-
 rived in this city a few days since. The ore is of the variety known as the Red oxide of copper. This ore when found in large quantities, which is not often the case, is considered a very valuable ore. This shipment can be seen at the office of Messrs. Shiel \& Price, 616, Market street. The portion of the vein from which it was taken is $21 / 2$ feet wide, eight feet from the surface. The prospects of this mine are highly flattering.
The Mampoth Company will send forward a shipment by the next steamer. This company has "struck it rich" in their tunnel, 70 feet below the surface. The vein is about two feet thich, and the ore, says the Herald's correspondent, "has the appearance of a rich bronze"-which would lead to the inference that it consists of "copper pyrites." This variety of ore, when it assumes a "rich bronze" appearance is usually very rich; when it appears of a paler hue it is of a poorer quality, the change in color being due to iron pyrites which are valueless in this connection.
Tue Alta Company have a vein six feet wide, and fine ore. Eight men are at work getting out the ore and opening up the mine. They have now 150 tons of ore on the surface, and will have a large quantity ready for shipment early in the spring,
A new and rich copper mine has been struck near Gasquet's, Smith's River, from which excellent ore is being taken.
In Rockland District, thirty miles trom Crescent City, a new mine called the "Cruikshank" has been located and the Company incorporated. Some splendid specimens of ore have been taken from it.
The "Express Company" is running a tumel 150 feet to strike a vein which is in sight on the surface. A box of ore from this mine came down on the steamer.
A new mine has been discovered in the southern part of Del Norte county from which a large amount of native copper has been taken.
If a smelting furnace should be erected here next spring it would pay well. Such an institution is needed. There are now on the surface hundreds of tons of ore ready for use, and thousands more are coming.
In Calaveras county, there appears to be no dimunition of the copper excitement. As a necessary consequence of realy valuable discoveries, the lawyers have already got some of the proprietors in this county at loggerheads, avd a suit has been commenced in relation to the ownership of the Copper Hill Mining Co's claim, near Campo Seco. A large number of witnesses have been summoned in the case, on both sides.
In Amador county, considerable excitement exists in and about Jackson, in consequence of new discoveries recently having been made near the Mountain Spring House. The Amador Dispatch says that Dr. Newton recently refused $\$ 6,000$ for his interest in one of the newly opened claims in this vicinity.
El Dorado.-There is great excitement about Clarksville, in El Dorado county, on the Folsom and Placerville road
as rich croppings of copper have been discovered within the past week. Men from Copperopolis, owners of rich copper claims there, have come over and located claims, and now have men prospecting on them. The new comers express the opinion that the croppings are very promising.

Copper Shipments.-The Clipper Ship, Fying Eagle, has been chartered to load with copper ore for Boston. Sixty tons of ore from Newton, Amador county, were placed on board ship Peruvian, a few days since, for Swansea. This shipment was made by Mr. Sheil.

## THE REESE RIVER MINES.

This new mining region, which is just now attracting much attention is located on the Overland Mail and Telegraph Route, about 70 miles South-easterly from Humboldt, and 130 miles from Carson City. The Reese River is one of the numerous class of rivers in that region which fall into a common sink with the Humboldt. Dr. Veatce, an eminent metallurgist, well known in this city, gives it as his opinion that this is one of the richest mineral regions yet discovered.
We have been favored with the perusal of a letter recently received from that region from which we learn that the mines are being rapidly developed. The ledges, so far as assays can prove them, give indications of great richness. We dare not give the figures which are before us, although they come from sources entitled to the highest credit. The principal ledges opened thus far appear to be the "Oregon," "North Star," "Lander," the "Comet," "Highland Mary," and "Pony Ledge."
The tunnel on the Pony Ledge has been dyiven 180 feet. That of the Highland Mary is in 61 feet. The Comet Company are at work on their ledge and taking.out what is apparently very rich rock. The Oregon and North Star are being worked with vigor. Rock from the former has been assayed and pronounced by Dr. Veatce, richer than any other yet discovered on the Pacific Slope. The Dr. is daily expected in this city, when we hope to be placed in possession of further facts, with regard to this interesting mineral region.
The Reese River Mining Company, which is interested in fourteen different Ledges, will erect a mill here early in the Spring. The Company have plenty of wood and a good Water Privilege. This is the Company which is running the tun. nel into the "Higbland Mary. It is made up chiefly of San Francisco Capitalists, who have the money to put it through.

Mr. F. W Cassmul, who is soliciting for the Mining and Scientific Prese, in some of the lower mining counties writes us that the new silver and copper discoveries in the neighborhod of Mokelamne Eill have created much excitement in that vicinity.. . Mining operations are rather dull in the districts which he has visited, just at the present, but better times are anticipated soon. We trust our mining friends will cheerfully respond to the calle of Mr. Cassell, and allow their names to be enrolled as subscribers to the Peess.

Injunction Surt.-The Yellow Jacket Company of Gold Hill Dist., Washoe, have sommenced suit against G. A. Hart and others and enjoined them from working and removing ore from their claim. The plaintiffs claim twelve hundred feet of ground, and aver that the defendants have jumped and removed from a portion thereof much valuable ore, and otherwise damaged their claim, for which they ask $\$ 10,000$ damages.

Washoe Ironworks.-Three foundriesand machine shops and one boiler manufactory are in full blast in this Territory, turning out in the aggregate no insignificant amount of machinery.
San Francisco Stock Exchange.-The following gentlemen have been elected officers for this association for the ensuing year:-J. B. E. Cavillier, President; J. Perry, Jr. Vice President; Franklin Lawton, Secretary; Henry Schmiedel, Treasurer.
Shot Proof Ships.-Within the last three years 590 plans for the construction of shot proof vessels have been sabmitted to the British Board of Admirality.

## SAN ERANCISCO MINING NOTICES.

Burning Moscow.-Shares of this Company, in arrears for axdessments will be suld at auction, Feb. 9.
Baltimury Awerica C'onsolidated-An assessment of 50 cents per thare was levied, Jan. 5.

Siavure,-An assessment of \$35 cents per share was leviod, Jun. 7.
Ilawley.-An assessment of 25 cts. per share was levied Jan. 5 , payable in 30 dalys.
Cole S. M. Cu.-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co--duassessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms 7 and 8 , Government House, San Francisco.
Sierra Novada S . M. Co. levied an assessment of $\$ 15$ per share, Jan. 15-payable Feb. 18.

Larly Bryan.-An assessment of 70 cts. was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.

Henry Martin f. \& S. M. Co.- "Thomas Wallace, Trustee." gives nutice that wherens certain parties illegally claiming to be Trustees of this Company, have changed the name of the Corporation to the North Stur G. \& S. M. Co., and illegally elected officers for the same, the public are cautioned against such acts, etc.
Red, White and Blue G. \& S. M. Co. levied an assessment of 25 c 'nts per share, payable on or before Feb. 1st office cor. Pine and Montgomery Sts.

An assessment of $\$ 35$ per share was levied Jan 6, payable immediately, at office, No. 712 Montgomery street.

Iona Copper Mining Company.-The annual meeting of Stockholders for the election of offleers, will be held, Jan 23, at office, No. 502, Montgomery street.

Live Oak Copper Co-The Annual Meeting of Stockholders for election of Trustees, will be held at Office, in Montgomery Block, Feb. $2,1863$.

Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share
was levied, Dec. 26, 1862-payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.
Savage Mining 00 :-The Annual Meeting of the Stockholders of this Co. will be held at Office, 712, Montgomery St. Jan. 13.
Union G. \& S. M. Co.-The regular quarterly Meeting will be held, at Office, 410, Montgomery St., Jan. 19.

The Madison G. \& S. M. Oo. advertise names of parties who are in arreas for assessments, and give notice that their stock will be sold on the 29th day of Jan. unless said assessments are previously paid.

Franco-Americano S. M. Co.-The following persons were elected officers at the meeting of trnstees, Dec. 26 thChas. F. Gaian, President and A. S. Gould, Secretary.
The office of this Company has been removed to No. 528, Clay street, Room No. 2.

Central Silver Mining Co.-The Annual Meeting for the election of Trustees will be held Jaa. 13, at Office, No. 712, Montgomery street.

Lady Bryan G. \& S. M. Co,-Shares of delinquent stockholders will be sold at auction for assersments, at No. 400 , Montgomery steet, on Jan. 27 .

Desert Mining Co.-Shares of Ielinquent stockholders will be sold at anction, for assessments, at No. 400, Montgomery street, Jan. 27.

Wide West Mining Co.-The Secretary of this Company publishes an important notice to Stackholders, in the daily papers.

Reese River Mining Co.-Ten cents per share has been levied upon the capital Stack of this Company, payable Jan. 14th.
San Francisco S. M. Co. have laid an assessment of $\$ 25$ per share, payable on or before Jan. lst, 1863.
Pacific Quicksilver Mining Co.-Assessment No. 3, of \$1 per share was levied, Dec. 22, payable immediately.
Keystnne Copper Mining Co, advertise for preposals to purchase or treat 3d quality copper ore. Proposals received till Jan. 15th.
Mammoth Ledge Mining Co. give notice of an assessment levied and payable on or before Jan. 13th. Also that the first annual Meeting for the election of Trustees will be held at office, Jan. 17 th.

Hale \& Norcross S. M. Co. have leried an assessment of $\$ 5$ per share payable on or before Jau. 26 th.

Meredith Gold \& Siluer Minisg Co.-An assessment of two and a half dullars per share (five dullare per foot) was levind by this Company. Dec. Ilth, payable immediatey , at office, 712 Montromery st.
Buition G. \&S. M. Co.-The Stockholders are notified that they will hear something to their advantage by cal ince at the ollice of the Company, cor. Pine and Montgomery sts.
Emmett G. \& S. M. Co.-An assessment of twenty-five cents per share was levied, Nov., 2lot aud is now due, and payable at office 326 Clay St.
Vibbarn G. \& S. M. Co.-An assessment of 25 cents per share was levied, Nov. 2lst, and is now due at office 326 Clay St.
Doyle G.\& S. M. Co.-Ans aseessment of 25 cents per share was levied, Nov. 21st, and is now due at office No. 326 Clay St.

Canrles Cany Mining Co.-An assesment of $\$ 150$ per share was levied on the stock of this Company, Dee. 14th, $186{ }^{2} 2$, payable on or before January 14th, 1803, at office, 338 Mantgemery St.
Live Oak Copper Mining Co-Office, Montgomery Block -Au assessment of thirty ceuts per share was levied, Dec. 1st, 1862 , payable in thirty days.
North Potosi Sllver Mining Co.-An aseessment of four dollars per share was levied on this Company, Dec. 11, 1862, payable on or before January 16th, 1863, at olfice, Cor. Battery \& Washington Sts.
Iowa Mining Co.-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Montgomery St. on, or before Jan. 3d, 1863.
Josephine Mining Co.-An assessment of two dollars per share was levied, Nov. 19 th, and is now due and payable at office No. 21 Stephenson House.
Burnside S. M. Co. - An assessment of one dollar per share was levied, Nov. 17 th, payable within 30 days, at office 712 Montgomery St.
Hawley Mining Co:-An assessment of 50 cents per share was levied, Nov. 15th, payable at once, at office 204 Front St.
Amertcan Quicksmiter Mining Co.-An assessment of one dollar per share was levied, Dec. 16th, payable at Company's Office, in Petaluma, within 30 days-At the expiration of which time delinquent Stock will be sold.
Burning Moscow S. M. Co.-An assessment of Two Dollars per share was levied, Nov. 25, for the parpose of detraying expenses of steam pump and machinery now being erected to drain the mine. Prompt payment is requested at the Company's office, corner of Mon'gomery and Jackson Sts., to Jos. P. Nourse, Sec.

## WASHOE MINING NOTICES.

Martin White-An assessment of 20 cts. a share was evied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cts. per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue aud C St., Virginia Citg.
Normon S. M. Oo.-Middleton \& Sons, No. 40, Montgomery Block, will sell delinquent stock of this Company, February 16 th.
Baltic Mining Co.-Notice is given of an adjourned sale of shares in this Company, to take place on the ground, Jan. 3lst.
Progress G. \& S. M. Co.-An assessment of 20 cents per foot was levied, Dec. 27, 1862, payable forthwith.
Sweesy Co.-Washington Ledge.-An assessment of $\$ 10,000$. being $\$ 53 / 2$ per fuot-was levied on the stock of this Comyany, Dec. 28, payable at the Secretary's Office. Medan Building.
Miners' Meeting.-At a meeting of the shareholders of the Siegel Mining Compauy, it was resolved that a meeting be called of all the miners of the Siegel Mining District, for the purpose of making laws by which said District may be governed, and that said meeting shall take place on the 15 th day of January, 1862, in said Siegel District, in or
near a certain place better designated as the Siegel Min. near a certain place be
ing Company's Cabin.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, stauding in name of W. Williams. (See Territorial Enterprise.)

Ashland Co.-L. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ashland Co. is forbidden to extract any valuable metals.
Eldorado G. \& S. M. Co.-An assessment of one dollar per share was levied, Ded. 31, 1862 , payable, Jan. 22, 1863, to the Secrelary, at corner of Montgomery and California streets, or to the Superintendent at Virginia City.
La-Plata Oro Co.-Gold Hill District.-An assessment of two dullars per share was levied, Dec. 26, payable at once,
at Office of the Secretary, Court-house Building, Virginia
'ity. 'ity.
Texas Co.-Tennessee Ledge.-An assessment of $25^{-} \mathrm{cts}$ : per foot was leviod, Dec. 22, payable on or before Jan. 21, 1863.

The Regular meeeting of the Company for election of offerers, will le held at the Conet Saluon, Virginia City, on Saturday, Jau. 21.
The North American Co., Gold Hill, will sell at auction Jan. 31, stock of shareholders deliugueut in payment of sesaments.
Martin White Mining Company.-An assessment of ten oents per foot has been levied, payable to the Secretary, at cflicc on C Street, Virginia City,

The Sweeney Co., Gold Hill, give notice that Baltic Company have wrougfuly claimed and worked their ground since July, 1860.
Poorman G. \& S. M. Co--An assesement of Five Dollars per share was levied, Nov. 9th, and another of Ten Dollare per share, Nov. 21, payable at once to the Secretary, R. J. Mitchel.
Coledonta Turnel and Mining Co.-An assesement of Thirty-two Dollars per share was levied, Dec. 8th, payable immediately to the Secrelary, Martin White.
The Uhimex Rock Co., lying next west of the Virginia Co. claims have notifed the Ilazel Green, Tingley and Biach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.
La Crosse Minina Co.-An assessment of $\$ 125$ per share was levied, Dec. 8th, payable at office 730 Street, Virginia City.
Hapk Eye Silver Mining Co:-An assessment of 25 cents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Mogegan Co, Cedar Hill-An assessment of fifty cents per foot was levied, Dec. 5th, payable forthwith, to the Secretary at Virginia City.

Oriental G. \& S. M. Co.-The 3 d assessment of 15 cents per foot, was levied, Dec. 8th, and is payable at office, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTICES.

The Zenobia Lode Company, give notice that they claim a superior title to the Jobnson Co., claiming the same ground, so far as said localities couflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J. C. Dorsey. S. P. Dorsey and James Elder,

## MINING AND SCIENTIFIC PRESS.

THE ONLY MINIVG, MECHANICL AND SCIENTIFIC PAPER ON THIS CONTINENT.

## THIRD GEAR: VOI,OME VI.-NEW SERIES!

186
new volume of this extensively circulated paper commenced Sept. 11, 1862. It is intended that every number shall be replete wits information
concerning Mining, scientific, Mechanical and Industrial pursuits, together with several original engravings, of new inventions, etc., prepared exprossly for its columus.
This paper is de
This paper is devoted to the above purposoy, together with tbe interests of Science, Arts, Agricultare and Commerce, and any general information
that may be of interest to the reader ; and it is the intention of the proprietor to spare no pains or expense in making it equal in interest and valuable information to any paper yet published.

The Mining Interest /
Will find it of great value, as it will contain all the nows appertainfing to Mining, the prices and sales of Mining Stocks, bew inventions of Machinery adaped to toa
to the Miner.

## The Inventor !

Will Gind it an excellent medum for the purpose of bringing his invention into notice, of astertainige the progress of invention in this and other
countries, and also of receiving any information that may bo necesary countries, ang his patent, the preprietor baving had great experience as a
in obting
Patent Agent, together witb facilities at Washington that enable him to ob in Patonts with disparch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each number will contain several original engravings of new machines and inventions, together with a large amount of reading matter appertaining thereto. We are constantly
receiving the best scientific jourals from anl quarters, from which we receiving the best scientific journals from all quartera, from which we
shall continue to extract whatever may bo of beucfit or interest to our readors.
To Chemists, Architects, Millwrights and Farmers! This journal will be invaluahle. All new discoveries in Chemistry will be iven, and a large amount of informalion of great, service to Architects and
Sillwrights will be found in our columns. The Farmers and Planters will not be neglected, engravings will be given of agricultural implements, and tho farming interest generally will be amply discussed.

## Terims.

To mail subscribers:-Four Dollars per annum.
Club Rates.
Five Copies for Six Months, S8.
Ten Copies for Six Months, \$16.
Ten Copies for Twelve Moriths, $\$ 30$.
Fifteen Copies for Twelve Months, $\$ 44$.
For all clubs of Twenty and over, the yearly subscription is onily $\$ 280$ For all clubs of Twenty and over, the yeariy subscription is oniy $\$ 280$ Specimen copies will be scnt gratis to any part of the country.

EWER SMITH, Pablishers,
Room 24, (formerly) U. S Court Building, Corner of Washington and Battery atraets, San Francisco.

# 猚tining and Serentific <br> W. B. EWER, <br> EDITOR. 

## MONDAY EVENING.

JANUARY 26, 1863
The MNING AND SCIENTLFIC PREAS is published at the Fxchange
Builuing, hoom 27, cornor of Battury ind Washington strects Bin FranBuilding, hoom 27, cornor of Battory ind Washngton streets sian Fran
C. W. M. SMITH and W, B. EWER, Proprietors.

Engravings, Electrotypes, etc.
We execute at this Oftice Engravings and Iilustrntions on Food, stone, copper, steel, etc. Steneotryacg aud Elscrropyta, Designs of erery des-cription-Buildings, sketehes of Towns, Machinery, Stamp Dies, Seals for lain or Colored Printing
JOB WORK-exe
Patrons will remenber that when we execute engravings we will inser them free of charge in the MiNing Anm scisntima Press, thus giviug the ad rantage of a Wiile Circulation throurhout the Pacife Coast in the best Ad rartising Medium to be found mithe country

## To Printers.

An Interest in one of the most flourshing and best paying Newspa per Offices in the monutains is offered for sele on easy terms. A rare op ortunity is hereby presented to any priuter devirous of establishing him self in a good business in one of the healthiest, most thriving and delight ful mountain towns it the state. For further information enquire at thi office.

## DISTRIBUTION OF GOLD AND SILVER.

The most productive quartz ledges or lodes, generally, are those which are the narrowest. There is a lode of tin in Cornwall, Eng. only three inches in thickness, which is very valuable; in the same vicinity there is a copper lode only six inches thick, which is more profitable than oue twenty feet thick in the same hill. The famous Copper Falls vein at Lake Superior is but 8 inches thick, and the Oliff mine 12. The richest veins in this State are generally very narrow, rarely exceeding an average of 12 or 15 inches. There are many very large veins in the State, some averaging as high as 10 , and even 15 and 20 feet in thickness. Were this class of veins to pay as much to the ton as the smaller ones do, the profits on them would be so enormous as in a short time to so augment the product of gold as to seriously affect its comparative value.
Gold and silver form the chief basis of the circulating medium, and Providence seems to have so ordered their distribution throughout the globe, as to require about the same anount of labor for production, in one place as another. Were it otherwise, incalculable mischief would result to the monetary affairs of the world.
Gold is the most universally and evenly diffused of all metals known to to man. Its supply must have been purposely ordered for the very object for which it is principally used. Those portions of the earth which were first peopled by man contain but limited supplies. The wants of man in those days did not require a large supply. Commerce was scarcely known, and the little that was carried on was chiefly in barter which did not require a large circulating medium. As man increased on the earth, and as artifcial wants grew up, commerce was called into bring to supply those wants. A material for a circulating medium was needed, and it was found in the distant regions whither the new conditions of sonciety led man in his travels and enterprise. The ancient Ophir, wherever it may have been, furnished the material, which was called for by the sudden rise of commerce in the days of Phcenician glory.
Phericia went down, and with it the commercial enterprise of the period. The wars and conquests which destroyed the peaceful and elevating pursuits of those days were succeeded by the dark ages. When the light of civilization again began to dawn, Columbus introduced to the world another Ophir, in the central portions of the Ameri can continent, from which the increased demands of commerce were once more supplied.
Years and centuries rolled on, and the nations had again become in a measure torpid. With the dawn of the present century, a new commercial era was introduced. The Arts, Sciences and Commeice were advancing with rapid strides, and men began to be in want of another increase to the circulating medium. The first resort was to an imaginary basis. The commercial world were relying upon a paper medium from the sheer necessity of the case. The activity of the times pushed a few pioneers of the "progressive race" to the western shores of our continent; and here, in the mountains of California, was again found the needed supply
which the wants of the age so imperiously demanded. The false basis which neeessity had so recently created began gradually to disappear and its place to be supplied by a legiti mate substitute.
Thus the means seem to be most wonderfully adapted to the end. From the earliest di-covery of this universal medum, it has been found in almost precisely the same conditions. About the same amount of labor is required to produce it now as at its first introduction into commerce, and it occurs in about the same quannities both in its ores and in its placers. May we not see in all this the hand of Providence adapting the means to the end? It is idle to talk of monetary derangements growing out of the increased supply of gold. Gold is the great agent which God has furnished man, wherewith to meet the necessities of the race in supplying the artificial wants to which he is now, and will continue to be, more and more subject in his onward progress to social perfection. It will ever be found exactly adapted to the ead. God's works and laws are always perfect.

## BRITISH MINES.

In another column we have given the total yield of the mines of Great Britain for the year 1861. On carefully analyzing these figures we arrive at the following facts with regard to the average richness of the mines of tiat country and the cost of extracting the mineral from several of their ores :-
Trv.-The average yield of the tin ore for 1861 was $\$ 375$ per ton. The cost of reducing the same appears to have been $\$ 76.36$ per ton; but we are inclined to think there must have been a discrepancy between the number of tons produced and the number worked which makes the cost of working appear much larger than it really is.
Copper.-The average yield of copper ore was $\$ 3260$ per ton.
Lead.-The yield of lead ore was $\$ 7648$; the cre berag reduced at an expense of $\$ 1634$ to the ton.
Su.ver.-Ouly 29 tons of silver ore were raised, which yielded an average of $\$ 243$, 44 to the ton. We do not learn from what locality this ore was obtained, nor have we the data from which to calculate the cost of its extraction from the ore.
Zinc.-The yield of ziuc ore was $\$ 24$ to the ton, which was worked at an expense of $\$ 1461$ to the ton.
The Yield.-Gov. Pickering estimates yield of the Washington Territory, gold mines for the last year [1862] at from $\$ 8,000,000$ to $\$ 10,000,000$.
It is from such mistaken and reckless "estimates" as the above that the Land Commissioner founded his estimates, for the immense revenue which he told the country, in his late report,,might be derived from the mines of the Pacific Coast. Instead of Washington Territory yielding eight or ten millions of dollars the past year, the entire North Coast, including all British Columbia, scarcely yielded the half of that amount. We append the figures, derived from facts not estimates :-
The total amount of treasure received in San Francisco from the entire North Coast daring the year 1862, as derived from official sources, was $\$ 4,931,579$. The amount shipped from the Port of Victoria to San Francisco by Wells, Fargo and other public shippers was $\$ 2,167,188$; thas leaving a balance of only $\$ 2,764386$ as the yield of Washington Territory and Oregon. The amount forwarded by private hands would scarcely increase that sum to $\$ 3,000,000$-or one third the amount estimated by Governar Pickering. Statistics to be valuable should be correct. We can see no good to be derived from an over estimate of our treasure products ; facts are what the people want, and all they need -more than that is fraught only with mischief.
Singular Development.-The Territorial Enterprise in its Stock Remarks of Monday last says that several Companies in Gold Hill have struck very rich rock by drifting to the Eastward, at what depth is not stated. Where this rock is struck, the ledge is found pitching to the East. This ledge, it will be reeollected, has hertofore been found pitching to the West. It is possible that the miners have just reached the true vein ; at all events claims bave considerably advanced in the ostimation of the present holders, and higher rates are asked than prior to the discovery.

## SAVING SILVER AND GOLD.

It is generally conceded that a large loss of mineral occurs in working gold or silver ores in the slum, or muddy water drained off from the vats which receive the sands from the batteries.
O. W. Easton, of Virginia City, a gentleman of much experience ia reference to this loss, makes the folluwing suggestions in the Virginia City Union:-
We all know that in the working of gold ores in California by stamping and grinding, the quicksilyer is knocked and ground into spray-sil ver, so called. Such is to a great extent the condition of a large portion of quicksilvr; whether used in the pans with the pulps, or in the barrels in the Frieberg process. Thus fine silver, which is not collected, carries off the small portion of metal liberated from the rich Comstock as well as other ores; and a simple mechanical means whereby the silver spray and fine amalgant could be savied; is the grand desideratum I propose that the tailings should be riddled by passing then through copper wire cluth sieves, which have first been tlectro-plated. The pulp and all the water, with clear water added to liquify the mass thoroughly, should be run over and through a succession of these sieves, the effect of which would probably be to pick out from the mass-by the affinity of the metalic silver on the wire for the silver in the pulp whether as spray, quicksilver or fine amalgam-all the metal now lost. As collected it would fall in globules with the tai'ings to be saved by quicksilver in riffes placeul in the sluice boxes, it having collected in particles large enough to have an appreciable speoific gravity. The tailings can be repentedly riddled as they run, without any labor or attention. The mass must be distributed very thin. Experiment must determine the size of the meshes of the wire cloth. The tailinge can be distributed by buttons as in the German sweep tables.
The above is a most excellent and practical suggestion, and could scarcely fail to prove remanerative.
The "wire cloth sieves" to be used for the above purpose, should be "electro-plated" with gold-silver, however, might possibly answer. If sieves of copper or brass wire were used, the abrasion of the sauds and the penetrative character of the quicksilver would soon destroy the wire.
In addition to the above we would suggest another plan, which we believe has in part been adopted by some mills.
Instead of the shoal vat in general use let a. deeper one be constructed, even if it be of smaller superfices, and immediately over this vat construct an apparatus of the same sapericial measurement from which-a constant shower bath (a very light one will answer) of cold water may be discharged upon the slum. This cold water, shower has an almost instantaneous effect upon the "spray-silver," so called, collecting and condensing the same into globules which readily settle, and thus, with the gold and silver which they contain, become fixed in the sands at the bottom of the vat. Every mill Superintendent is aware that by pearly or quite all the processes ordinarily employed, a large amount of quicksilver is lost, the loss from retorting accounting for but a small portion thereof. This quicksilver thus lost, mostly passes off in the condition alluded to by Mr. Easton; and "that's what's the matter," or the reason, in a large majority of cases, why the rock don't pay. When triturating pans are used, through which a flow of water is allowed for some time previous to the final "clean up," the loss from this source is very large. "The employment of the shower bathover the Fats, the placing a series of wire sieves, in addition, as suggested by Mr. Easton, and the use of Wheeler" "Separator" -a machine illustrated in the Press of January 12th-for cleaning up, will, we believe, render valuable a large class of veins now deemed entirely unproductive. The two former appliances are exceediagly cheap and simple; and the show er bath will require but a little water. It need not fall much faster than it does in a pretty smart summer shower. The "Separator" is not an expensive machine, and we would advise every quartz miner, visiting the city to call at the Miners' Fonndry and see the machine at work.
Every month and almost every day our miners leapo something new, and each access of experience, or practical suggestion, made public, adds to the general fund of knowledge and the aggregate yield of our mines. The object of this journal is to establish a general medium of communication among miners, by which information of this character may be speedily and conveniently disseminated among those interested ; and it will at all times afford us pleasure to lay before our readers any new ideas or practical. suggestions which may for from time to time come up among those engaged in the difficult and intricate art of separating gold and silver frum their ores, or mining for those ores in the bowels of the earth.

GENERAL MINING STOCK REPORT.
REPORT UF SALES
At the San Franoluco Mining stock Board, Fior the nevk eadaug Jafiluary 24, 18 titi.


## Coso Stocks.

The Josephine changed hands at the Stock Board, ou Monday at \$16, on Tuestay at 16; on Wednesdey 16, on Thureday at 16, on Fridey at 25. m Coso-changed batds on Thursday at 10 dullara.
Willow Syringemaid on Tuesany at $\$ 20$.

## Mexican Mines.

Wina Prieta inda no recent buyers, but is bold at $\$ 140$. Dius Padre was quoted on Tuesday and Thurdsy at $\$ 33$, on Friday at 30.

## SAn Francisco, Jan. 26th, 1863.

## stoct remarks.

The miniog stock transactions of the past week have been uousually large, and probably embrace a wider range of atocks than has ever before boull uoticer in the market. We quote for tbe week, sales in 33 different
companos ; mostly at prices which show a decided imptovement over acy atmalar period, These facts augur well for the favorable progress of our miving interest, and indicate such a tone of coufidence smong our ow capitalists who scek high percentages, as cavoot rail to operate most faverably In attracting hither foreigu capital, which is satisfed with much lower percentages whenever safo investments are offered.
The peculiar seuaitiveness of Ophir stock has again been most remarka bly manifested. We quote iu a range from $\$ 1600$ to $\$ 26501$ It sold early on Monday at $\$ 2600$ and on Wednesday was quoted at the Stock Board at $\$ 1600$-a decline of $\$ 1050$ in three days! The osteusible reason of the de chne was one which, in the mind of an experienced miner, would not afect the alock to the value of two per cent.
Gould \& Curry still contivues in demand at anvanced rates. The advance is attributable
the quantity offered. Speculation iu the January, dividends is atill indulged in. Dividends to the foot, monthly for one year were sold for $\$ 80$ on Friday, aud $\$ 90$ was offered on Saturduy, $\$ 92 / 2 / 2$ was freely offered for the Jouuary dividend.
Savage is still advancing ; sharen having gone up $\$ 250$ during the week Their advance to 320 s 0 om 60 days is confidently predicted.
Cbollar and Potosi romain at about last quutationie, with a very slight advance. Buyers will probably hold shy of both until the result of the pending suit is announced.
Norton, which was in demand, a week ago, at greatly advanced rates has uot sustained itself during the past week; buyers are waiting further develnpments with regard to the "rich strike."
Daney has advapced $\$ 40$ per foot over last quotations. Still forthor adwancesin this stock may be looked for, as it will soon become a dividend paying instituthon. The company's mill is nearly ready to start, and a large supply of good ore awaits its completion.

## ESMERALDA STOCKR.

Considerable confidence is begining to be manifeated in Esmeralda stocks which are able to pass the ordeal of the "Esmeralda Board." While that inatitution, as now managed, will doubtles exert a benefcial infuence on legitimate stock operations, it cannot be otherwise than detrimental to the development of new mines. It is advantageous for San Francisco but the reverse for Esmeralde.
Wide West has declined a Iittle in consequence of the jojunction of the Dimes Company. Holders should not be alarmed as that suit will scarcely reach the diguity of "a tempeat in a tea-pot" affair

## traysactions in shares, *

Ophir-60 shares at $\$ 2,100$ per foot ; 120 at 2,050, 60 at 2,150; 86 at 2,250 $60 \mathrm{at} 2,250 ; 60$ at 2,$400 ; 60$ at $2,500,60$ days; 60 at 2,$650 ; 138$ at 2,$250 ; 120$ 2,$660 ; 6$ at 2,$200 ; 24$ at 2,$175 ; 98$ eq 2, $100 ; 18$ at 2,$400 ; 120$ at $2550 ; 260$ at 2150 Gould \&t Curry-6 at $\$ 3,100$; 40 at 3,$100 ; 12$ at $3,050,40$ at $\$ 2,100 ; 16$

3,$125 ; 20$ at $3,250,60$ hays ; 80 at 3,$200 ; 40 \mathrm{at} 33,250 ; 20$ at $3070 ; 60$ at 8,076 Clsullar-20 at $\$ 350 ; 20$ at $395 ; 20$ ut $300 ; 20$ at 400,32 at 397 ; ; ; 8 at 400 Suvage- 10 at $\$ 1,150 ; 5$ mt 1,$125 ; 5$ at $1150 ; 10$ at $\$ 1,250$, byer 30 days; 6 at $1,220,5$ at 1,$225 ; 5$ at 1,2005 at 1,160 .
Potust-10 *barts 4t $\$ 160 ; 15$ at 155; 18 at 155; 40 at 157 1a; 20 at160; 20 a 160
 Burning Soscow-12 at $\$ 75$; 5 at 70; 10 at $725 ; 20$ ut 72 乌i; 0 ut $80 ; 15$ 17; $18 \mathrm{ut} 76,30 \mathrm{nt} 75$.
Chacles Cuncy-2 al $\$ 0$; 20 at 19; 10 at 20; Sanbors \& Co. quoto at $\$ 21$ 3ermdith-25 sharea at $\$ 27$ \%; $; 10$ at $28 ; 26$ at 32 \%a.
Cutral- 42 at $\$ 1,600$.
Hato \& Noreross-10 at $8520 ; 10$ at $\$ 580$.
Davey- $\mathbf{4 0}$ at $\$ 210 ; 20$ at $225 ; 28$ at $240 ; 32$ at 240 .
North Potosi-10 at $\$ 13 ; 20$ at $15 ; 10$ ut $14 ; 40$ at $13 \% ; \mathrm{S}$ \& Co. quote at 16 Rogerb, F. D. -40 at $\$ 11 ; 25$ at $10 ; 68$ ut 10.
Nurtonman at s30; 60 at 31 ; $70 \mathrm{at} 30 ; 25 \mathrm{at}$; $32 \%$, 10 at 35 ; 60 at 30 ; 20 at $35 ; 50$ at $30 ; 25$ at $31 ; 60$ at 28 .
Burnside- 60 at $\$ 14 ; 26$ at $16 ; 15$ at
Burnstde-60 at $\$ 14 ; 210$ at $16 ; 15$ at $17 ; 30$ at 14.
Dekert—10 at $\$ 7$; 20 at $6 ; 10$ at 6 . Hizel Gree- 30 at 33; 50 at 8 ; 25 as3

Sacrumento- 10 nt $835 ; 10$ at $40 ; 6$ at $45 ; 10$ at $47 \frac{1}{2}$.
Uulum, Russ District-100 $2 \% / 6,175$ at $3 ; 200$ at $336: 100$ at 8 ,
ESMERALDA ISSTRICT.
Wido West-10 shares at $8405 ; 5$ at $400 ; 20$ at $390 ; 40$ at 440,60 days; 1 at : $80 ; 40$ at $375 ; 30$ at 370 .
Avtelope-10 at \$220; 20 at $215 ; 10$ at $210 ; 5$ at 280 .
Real del Monte- 40 at 22 rá; 10 at $23 ; 14$ at $24 ; 15$ at 223 , Sanborn \& Co quote at $\$ 25$.
Silver Hill- 15 \$22; 1125 ; 18 at $25 ; 25$ at $21 ; 20$ at 22 .
Etuu-50 at $\$ 5 ; 50$ at $6 ; 25$ at $5 ; 50$ at $5 ; 5$ at 5 .
Garibald- 25 at $\$ 24 ; 25$ ct $25 ; 30$ at 23 ; 10 at 26 ; 10 at $27-$;
Esmeralda-10 at $\$ 57$ há, 20 at $55 ; 30$ st $58 ; 60$ at 55.
Bogers, V. D. -25 at $\$ 60$.

## - Quotatious made at given rates por foot.

## stocks in Virginia City.

Corrected by Wigaticas \& Mitcres for the Virginia City Union. The following stocks, were in the market in Virginia City, and held a

## Asbland. <br> La Crons Sanaz Fe <br> Eanca Fe. Empire... Salta Rita <br> McBeo. Zouevo <br> Zousvo... Belvilera <br> Belvider York... Governo <br> Governo Baltic. Peytou: <br> Peytoui Dhargun. <br> ElDorads. Summit. Washiob <br> Washin Miltob <br> Hazel G Eureka. <br> Laborith <br> Caledoulia St. George Mary Ann

Miltou
Cedur Bill runnel.
Adriatu.....


#### Abstract

 





Co
$\qquad$
$\qquad$

## ESMERALDA STOCK REPORT,

At the meoting of the Esmeralda Stock Board, held January oth. 1883, the following buciness was transactod in stocks, as roported in the Esmerulde Star.

## Rndie Bluff Consolidation -50 feet offered at $\$ 10$; bid 6

Peru (two feet to the stare)-25
10 sheres Garibaldi withdrawn.
One-thirteenth interest in the Nevada Tunnel withdrawn.
Heath-10 shares offered at $\$ 10$.
Falls of Clyde-100 shares oftered at $\$ 5$.
St. Louis- $\$ 12$ bid; no stock offered.
Hanorer-20 shares offered at-\$25; -bid 12.
Live Yankee-25 sharos ofterod at $\$ 10$; bid 8
Nevada- 25 shares offered at $\$ 10$.
Del Monte- 12 shares ofiered at $\$ 20$; bid 15 .
Pride of Antelope-25 shares offered at 85.
Union Tunnel-10 shares offered at $\$ 15$.
Alturus- 10 ehares offared at $\$ 15$.
Esmoralda stocks offered at San Franciseo. Valuation-

Published $b \nabla$ ord

| 4500 |
| :--- |
| 1500 |
| 15001 |

J. B. BLANCHARD. Sec.

At a meeting of the Board, held January 16th, 1863, the following etocka were offered
Pride of Aatelope- 25 shares offered at $\$ 5$.
Union Tunnel. - 10 shares offered at $\$ 15$.
Alloras-5 shares offered at 25 .
Bamboo, - 20 feet offered at 75 -bid 50
Bamboo, -20 feet olfered at 75 -bid 50 .
Strawberry, -25 sbares offered at $18 \rightarrow$ bid 8.
Ex. Johnson- 100 feet offered at 8 .
Ex. Johason- 100 feet olfered
Freann-25 feet offered at 8.
Del Norto- 12 shares offered at 36.
Esmoralda Stocks offered at San Francisco valuatinn

${ }_{8}^{20} 00 \mid$ Real jei.........

## TRANSACTIONS OF THE WEXK.

240 feet of Bamboo sold at $\$ 40$ per foot.
65 shares sitruwberry suld at $\$ 10$ per sharo
100 feet Ciriden Age at $\$ 5$ per foot.
25 stares leru, at $\$ 5$ each.
20 feet Bodie Bluff Cousolldation, at 312.
Application for Examination and Clussification was recelved from the folowiog Companies:-Garibaldi, Ural and Julla Elizabeth
J. B. BLANCBARD, Socrolary.

## WASHOE STOCK REPORT,

[Couplibd prox tue Dasly Tkrbrtorlal Eaterpuask]]
Monday, Jan 12.-The Flowery Hill Company, Summit District, it is sald afford iadicatlens of a guod ledge. The work of prospocting is boing diligently prosecuted, und many outisiders are wateling the result with miuch interest, as indicative of what may be expected from otber miven in the digtriet. The Hale \& Noreross Cumpruy have placed their mine in good condition for working, and, at last accounts, were about ready to commonce taking out rook. Therr hoisting muchinery is driveu by a 15 -horse power engme. The Pride of Washoo Company have started a cuunel to strike their ledge at a dupth of 75 or 100 feet. Their ledge is about 17 foet in width at the surface, aud proapects well in both gold and silver.
The stock operations. for to-day bavo beod limited and unimportant, tho' much onquiry has been mado for claime at figures alightly below the prices asked. Two lots of fifteen uvd tou fout each in the Wellington Company sold at rates not desired to be made public. Fifleen feet of Braball sold at $\$ 16$. Twenty-five feet of Walker \& Co. sold at low rates.
Tuesday, Jan. 13.-The La Crosse Company bave entered into two severs contracts with reepoasible parties for the raisiug of $\$ 000$ tous of ore, the contractors furnishing their own engiue and other machinery. Transactiona in stocks have been light to-day. Two sales, of 6 and 10 feet in the La Crosse are reported at an advauce on last quotations. Tho development of a suit botween the Yellow Jacketand the Union and Laboring Companies at Gold Hill, has thrown somestock in all these companes into the marbet at reduced figures, but the demand is almoat equal to the supply. Twelve feet of Birdsali sold at $\$ 17$, and 6 feet at $\$ 1750$; eight feot of Allen at 45 ; 10 feet Fairyiew at 20. 25 foet Gay, at 350.
Wednesday, Jan. 14.-Transactions light, to-day. The high rates of arst clase atocks in San Francisco have caused a general firmness, and good ground was spariogly offered. Baltic was quoted to-day at $17 \%$ and Zouave at 8 dollars per fout. Prices remain aubstantially as yesterduy and the day before.
Thursday, Jan 15.-Considerable retivity was manifested in stocks to-day, though but few sules were effected. Inquiry was made for several stocks which have been for some time entirtiy out of demand. There with no doubt be greater activity in stocks in fufure, than duriag the past Fall or Winter. The developments made during the last few weeks in the various claims of this aud Gold Bull districts seom to have given renowed confdence in the richness and permanency of the poines of Washou. The Norton Cumpany made a rich strike to-day, -the game which caused the sndden advanes of that stock in the Sun Francisco market a week siuce. The Orieutal, at Gold Hill, is aaid to have struck a ledge which has tho appearance of veing valuable. The ledge has been penctrated with a tunnel about 6 fect, but has not yet reached the opposite side. This Company was formed for the parpose of rumbing a tunnel of great and indeffinite length into the hill west of town. They claim several ledges on the line of the tunnel.
Sacramento is in demand nnd saleable at $\$ 35$ por foot. This Company has commenced operations on their lower tunapl, with good, results, which probably does mucle for the better pepate of their stack ${ }_{9}$, Some inquiry is made for La Crosse, for which $\$ 17$ is offered. The evident approach of a Jawsuit appears to have brought the atock of this Campany joto more favorable notice Inquiry is made for J . S. Tunuell stock. It can be sold at . low rates. Cedar Hill Tumel is without demand. Several importaut sales h ave talien place to-day.
Friday, January 16. There is some demand for clalma ant prominent in the market, but generally at lower ratea than bolders are williug to acin the market, but generally at lower ratea than bolders are williug to ac-
cept. Those ouly who are in pressing want of money will accede to the cept. Those ouly who are in pressing want of money will
terms of the buyers-consequently few transfers are noted.
Sacramen to is in demand at $\$ 40$, a material advance over last quotations; but little, however, appears in the market at any price. Ten feet sold today ut 40. Beach Paxtou bre taking out some fine looking rock. Their stock appeare to be ontiroly withdrawn from the market; $\$ 30$ is offered without finding sellers. Tho Flowery Hill Co., alluded to on Monday have struck ground in their tunnel which iadicates a near approach to their Jedge. The Yellow Jacket has enjoined the Union and Laboring Companies Jedge. Tbe Yellow Jacket has enjoined the Union and Laboring Companies
from further operations on their claims. The Birdsall Company Lave atfrom further operations on their claims. The Birdsall Company have at-
tained a depth of 150 feet from the bottom of their shaft and are about to strike their ledge at that depth, Nine feet of this stock sold at $\$ 20$ per foot. Some 300 of Yolo have changed hauds at rafes which are not made public. The stock is in great demand at low rates.
Saturḍay, Jan. IT-There was some enquiry, to-day, for Saeramento at \$40; Beach \& Paxton at 25 to 30 ; for La Crosse at 16 to 17, and for Birdsall at the same figures. Prices asme as lastquotationg. The business of the day has been light.

## HUNTROLDT STOCK.

A small asle of Humbotdt stock was eifected in Virginia City on the 10th Instant at low rates in several clains at an average of $\$ 3$ per font. Considerable stock atill remains in the market. Accounts from this district according to the Territorial Enterprise are somewhat less satisfactory than the predictions of six months since had warranted. One or two mills commenced operations there a few weeks since, and the returns from the ores of a number of the ledges was quite meagre. In one instance where the sassys had engendered large expectatione, nothing more precious than lead and antimony was obtained from a crushing of ten tons of rock, Before and antimony was obtained from apeus inrce mills will be in operation in the Humboldt reglon and the value of the mines there will be in a measure settled. Assays amount to value of the mines there will be in a measure settl
but little in arriving at the actual value of a mine.

## California Copper Mines-Practical Suggestions.

Editor of Mining and Screntific Press-Sir:-Having noticed some time past, through the medium of your journal, that while the capitalists of this State, especially those of San Francisco, are deeply engaged in the gold and silver mines of Washoe, and other places, and that they are also turning their attention to the development of the copper lodes, in various places and throughout this State, and having bad several years experience in the working of such, in the mines of Cornwall, Eng., I beg you will give insertion to the following remarks and suggestions which $I$ have thought proper to hand you for the perusal of your readers.

The mineral indications, from vhat I have seen and heard in a this country, far surpass in value and extent those of England; so much so, that where the latter have only a few colors and those at a considerable depth, you have paying rock from the word go, and in some instances, in very respec-
table quantities; consequently with proper and judicious management, the copper lodes of California must, ere long, figure most prominently, and will most undoubtedly prove to be highly remunerative to the speculators, whilst those of England to the first, second, and in some cases to the third parties, proved a failure, but little or no copper being
found till at the depth of two or three hundred feet, conse found till at the depth of two or three hundred feet, consequently many mines were abandoned, leaving immense riches still at a greater depth. With these facts in mind, the
speculator here maythink himself blessed; for in comparison with the "Old Country," he can not only see but feel his way. This the most skeptical mastadmit, for we have the ore, in many instances, sticking out at the surface, and with practical men as managers, such mines must prove to be of the first order, and unquestionably good.

As a Superintendent of Copper Mines, I have had several years practice in Cornwall, and would recommend to those engaged in such in this Country, strict adherence to the keeping of the Working Plan, it being, according to my ideas, a desideratum of the greatest importance to both Company and Agent, however competent the latter may be. For instance, a Working Plan shows him, at a glance, the exact position of the different points of operation, and whether the bearings of the levels above, and below correspond, and likewise the distance of underlie between the same In many instances where the Superintendent has not the assistance of this, the productive part of the Lode has been lost, caused by a "split off," the same being so minute at the separation, as not to be noticed; for where this occars, there is generally a change in its bearing, but, of so little a moment, as not to be perceived. When laid down on paper, however, it becomes apparent, and puts the agent on his guard. He examiaes the point referred to, and in many instances I have witnessed a branch, scarcely discernable, to have left the main vein, which, on opening, only few feat, has increased in size from three to six feet thick, and this the productive part of the Lode. In all cases where branches or spurs are intersecting the main part, they should be shown with the bearings, etc., on the Plan, so as to give the Agent, and also the buyer, and seller, an idea where to expect an improvement, or at least, the junction of the same on the levels above, or below; for in most cases it does benefit the concern.

There are many other desirable objects gained by due at. tention to said Working Plan, such as the extent and bearings of the different strata of ground in which the Lode is imbedded, whether highly metalliferous or otherwise. Also the junction of different strata, and whether lengthening in depth or not; for as a tree derives its fruitfulness from the soil on which it grows, so does a Lode, or Ledge, whith gold, silver, or copper, from the stratum of ground in which is is imbedded. Yours Truly,

Miner.

| C. W. THomas, Plaining Mill, California street, facing the Mission R. R. R |
| :--- |
| ml 1 |

TURNER, MARSH \& usGDOD, Successors to C. 0 . Turner \& C
of Wiues and Liquors, S. E. cor. Front and sacramento sts.
D. J. B. BEERS-Dentst, 617 Clay street. All operations on the teeth
aple

| K NLLY \& WADE, Importers and Dealers in Paints, Oils, Turpentine, Etc |
| :--- |
| mes 100 California street, Bet. Davis and Front. |

WILLAM FELLL, Notary Public tor Storey County, N. T. Cotamissioner o
my 23
Deeds for California Virgina City, N. T.
PL3ER, HANSCOM \& Co. Goldrn State Foundry, and Machine Works
(Formorly Sutter Iron Works.) First street near Market.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general ule, any iovention which is valuable to the patentee in this country, is worth equally as much in England ad some other foreign countries. Four patents-A merican, English,French and Belgian-will secure an inventor exclusive monoply to his discovery among one handred millions of the most intelligeat people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Ameri cans in foreigo countries are obtained through the Minine and Scientific Press Patent Agency. Having establish ed agencies at all the principal European seats of Govern
ment, we obtain patents in Great Britaid, France, Belgium, ment, we obtain patents in Great Britaid, France, Belgium,
Prussia, Austria, Spain, etc., with promptness and dispatch.
Models are not required in any Enropean country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravings should not be published until the foreign applications bave been made.
Caution-It bas become a somewhat common practice for agents located in England to send out circalars soliciting the patronage of American inventors. We caution the latter against heeding such applications as they may otherwise fall
into the hands of irresponsible parties, and thus be defrauded into the hands of irresponsible parties, and thus be defrauded
of their rights. It is much better for inventors to entrast their cases to the care of a competent, reliable agent at home.
While it is true of Most European conntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex. amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before he will except the title.

It is also very uosafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent agents or patent brokers, a
trusted with valuable inventions.

Our Mint, its Rules, Charges and Operations.
In the columes of a contemporary we observe some ex ceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending
April, 1857, while the actual loss was $\$ 266,31286$, exceedApril, 1857, while the actual loss was $\$ 266,31286$, exceedyears of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little under two per cent. of the amount allowed by law to be
wasted. The wastage of the Philadelphia mint is twentywasted. The wastage of the Philadelphia mint is twentytwo per cent., against two per cent., wasted by our branch
mint. The total expenditures for three years under Messrs. Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under Mr. Hempstead, the total expnnditures for four years were but $\$ 1,150,64814$; while the difference between
the last year of Judge Lott and the last year of Mr. Hemthe last year of Judge Lott and the last year of Mr. Hem-
stead was upward of $\$ 100.000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an noexpended balance of appropriation due the mint of up wards of $\$ 86,000$. This certainly is a capital showing for
our mint, and speaks well for Mr. Hemspstead's Superin our mint, and speaks well for Mr. Hemspstead's Superin
tendency. Under Mr. Stevens, the present Superintendent. we have no doubt everything wil work in an equally satis factory manner.

## For parting silver from gold when gold

is below 300-1000ths. fine.............3cts per oz
is from $300-1000$ ths. to $750-1000$ hhs fine. 7 cts
from 300-1000ths. to $750-1000$ ths fine. 7cts
Deposits Siliver Bullion-Purgrases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on grose value of all gold contained for coinage.
Refining charges (only where gold. is contained) propor ion of goid 1 to 300 , 3cts. per oz. gross weight

301 " 500 , 7ets,

## Deposits for Fine Bars

$\$ 116-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross alue of silver for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges a in purchases.

Bars Sold From Refinery.
$\$ 121 \mathrm{cts}$. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Deposited for Dollars.
\$I 16-4-11 ths. per standard oz. $1 / 2$ per ct. gross value for
coining, when gold is contained, refining charge the same as in purchases.

## Deposited for Imported Bars.

\$1 16-4-11ths. cents per standard oz. $1 / 2$ per ct. gross


## CORNS AND BUNIONS REMOTED.

DR. BYRON O. KENNEDY, practical CHIRopodiss, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such as Corns, Bunions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet without pain or incoavenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Ulcers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A. M., and 2 to 6 P. M. Having devoted six years of study to this important, hat too much
neglected, branch of human knowledge, and having studied neglected, branch of human knowledge, and having studied
anatomy under the most skiful and scientific Prolessors of Philadelphia, and having made this branch of surgical science my speciality for mine years. enables me to operate skilfully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lotty position in the profession.
Voizin is an illustrous example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kenne. dy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, $\mathbf{P a n j}_{\text {an }}$ Dr. Klimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks for itself was written by Dr. W. L. Stevens of the University College of Philadelphie: Dr. Branon C. Kenseny : Dear Sir-Learning that you are going to tine
your departure for California, and wishing to inform the citizens of Yhis-
delptis and also the people of the State of California the esteem in which we the oncouragement which youmg may recerve from the people of Phula-
than the
delphia, in the midst of owhich is the playground of your boyhood, and delphia, in the midst of owhich is the playground of your boybood, and
koowing that you have devoted yearo of sidut to this important but too
much neglected branch of human hoowledge; that you have altained to the hig
citit
com comment you with confideuce to the citizens of sai Frabcisco, as one of the
most skiful surgeons of the age, and we hope your success may be such on,
will real will renay you for your yenra of study, ayd that you may find a broad feld
or your exertio sin the pew and growing city of the Pacific.

THE EYES! THE EYES!! THE EYES/!! DR. E. H. PARDEE,
Oculist and Aurist to the San Francisco Deaf, Dumb and Blind Asylum.
After a protracted blindness of more than five years, Dr. PARDFE has made bimself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practic-
ing with a success that cannot be surpassed in the United States ; and as proof of this he substantiates by many cases now in California that have been cured by hinn, after having. exhansted the skill of the eminent physicians and oculists on New York city, Boston and Philadelphia.

From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, thati
there has been more blindness from bad and iroproper treat-1 ment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustio to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on in quiring what had been formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone;" week-had a blue pill prescribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tightly bandaged - to avoid the open air and exercise? with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be careful and not place their ejes at the mercies of a man who does nothing but bura them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and following theories the most erroneous, and destructive to the
eve. How much more rational and consistent to consult an eye. How much more rational and consisient to consult
experienced Oculist, who thoroughly understands every dis ease of this tender organ in all its aspects and varieties. $\mathrm{Dr}_{\text {r }}$ PARDEE has from sixty to one hundred patiects under his daily supervision, and, with but very few cases, they have all been treated by other physicians hefore applying to him-and
all to no benefit. Those who are doubtful are permitted to call at Dr. Pardee's office and confer with the many patients who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Artit ficial Eyes on this coast, inserted, having all the movements of the real eye, and that they look so life-ike that no one can
tell them, when properly inserted, frcm the real eye. These eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens by absorp-
tion or extraction:-" Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&c.
OFFICE :-Clay street, above the Plaza-opposite Plaze
Hotel-old No. 217, up stairs. Hotel-old No. 217, up stairs.

## Kegarding Patents.

We desire to call the attention of all those who intend pplying for Patents, to our superior facilitios for obtaining he sume. Our arrangements are such that we can have all
he papers prepared,transmitted and returned, with the Patent kight, io three monthe from the time the applicant places his matter into our hands; thus saving at least three nonths delay.
The expense to the applicant would be rather less, if the usiness be done by us, than if the papers were sent to iew York or Washington.
Thus by patronizing a home institntion, our inventive itizens can save both time and money.
We have prompt, intelligent and reliable agents in the ity of Waskington who attend punctually to all Patent usiness sent to them. We have agents, also, at London, 'apis, Brussels, Mamburg, St. Petersburg, Berlin, Vienna, nd other European capitals.

RECENT PATENTS-Granted to California Inven ors through the Pacific Pateut Agency.

Herman Camp,-Patent for Quartz Crusher and Amalga-
W. H. Ricrardson-Patent granted for Washing Ma E. E. Matteson, Nevada: Hydraulic Derriclc. This nvention has been illustrated in this journal, and has obained great celebrity hroughout the State.
Elander Heatra, San Francisco, Spiral Spice and Suge Mill. See "Mining and Scientific Press," June 9th, P62, Vol. V., No. XII!.
G. F. Deetken, formerly of Nevada: Apparatus for separating Gold from Pyrites. This is one of the most aseful inventions of the day. Mr. Deetken has successfully worked sulphurets for a number of years in Nevada county, professes to bave obtained greater results than others eugaed in the same occupation. Mr. D. has recently established himself in this County, on the San Bruno Road, near he Islais Cre ${ }^{\text {ek, where he has erected chemical and metal }-1 .}$ urgical works.

## LATEST IMPROVEMFNT

## In LADIES' BUCKLES.

$\mathbf{M}^{\text {R. reichel respcteully announctes to the ladies of this }}$ State, as well as to Jewwelers and doalers in Jeweiry, that he has made
mportant improvements in BUCKLEs, which surpass any and all heretooro made. Their simplicity, commodiousness, and beauty reader them the most useful as well as ornamental trinkets.
Orders from the country respectfolly solicited. For particulars call at o address, FREDERIK REICAEL,
sep11
Manufncturing Jeweler,
620 Merchant street, San Francisco

## REMOVAL.

Ois removed to sis California street. Haviag enlarged our Works at is removed to 318 Califoraia street. Having eularged our Worke at
North Bench, we are uow enabied to reduce from 10 to 15 tous of Silver or North reacu, we dare now enaled
Gold and per Silver. ore, and Sulphurot Assayers', or Silversmithe' sweepings
Gold reduced or purchasad,
COPRER OBES
COPRER OBES-Highcst market ratob advanced in cash, for shipments.
my30
318 Californin street, near Sanbone, up stairs.

## WRIGHTS PICKS.

 at reduced prices. Prce EyEs of the best iron furninhod in any quantity, at
low rates Orders from the country promptly attended to. N. B. - None
genuine unless stamped with my pame. gonuine
je20

Oppoite Battery, San Francisc

## LABOR-SAVING

Rock Drilling Machines.
TIo Engineers, ratroad contractors, TURNPIKE and puarry will continue to recoiue orders, for

## STEAM-POWER MACHINES.

The Hand Machines are oxpressly adapted for working in Tannels, Galle
ries, elc., one man performing the labor of three in the ordinary way ries, etc. one man performiog the labor of three in the ordinary way.
A FOUR-HORSE POWFR MACHINE, operated by one man, drives a
 being limited ouly by the durabillty of the steel drill.
Satisfactory refereuce will be given as to the practical working of the
machine, and its entire success in reducing the cost af drilling holes to machine, and its entire success in reducing the cost of drilling holes to one-
tenth of the former expense, snd on a rock excavation of any extent, from
fifty to seventy-five per cent. on the entiro work. Responsihle firty to seventy-five per cent. on the entire work. Responsible parties who
have rock exeavations to make in any part of the State, the subscriber wil uudertake and guaranteo to perform the work required, at a saving of a
least twenty-nve per cent. over nay other proces. least twenty-Ave per ce
Address orders to Address orders to
oct-qm]
Fremont street, bet. Market and Mission, San Francisco

## A. ROMAN * CO.

wholesale and retail
BOOK ESTABLISHMENT.
417 and 418 Montgomery street, SAN FRANCISCO.
13. Ordors respectfully solicited and promptly attended to.

Treatise on Metallungy, Comprising Mining and Genoral and Parthonlar Motallurgical Operatlons, Etc. litc. By Fredurick Overman.
A Manual of Metallurgy, or A Practical Treatiso on the Chemistry of Motale nual of Metallurgy, more particularly of the precious
jog such olhers as aro employed in dental practico.
Records of Mining and Motalinrgy, or Facts and Memoranda for the Use of the Mine Agent and Smelter. By James Phillipg and John Darlington. Piggot on the Chomlatry and Mining of Cuppor.
Practical Mineral Ascaying and Miviug. Overman.
Goti Minlug and Assayiug; by Phipa,
Miners' Companion and Guide, compited by Silversmith.
Assayers' Gude; or Practical directions to Assayers, Miners and Smelters, tver Ores and silver अines, by
Uro's Dictionary of Arts, Mauumctures and Mines
Welabach's Mechanick of Mohinery and Engincering.
Nevilla's Hyilraulic Formala
Nevilla's Hydraulic Formuin T
Fresunjus' Uheraical Analysis.
Together with many other worlcsin this \& similarlines W2. Books imported to order on short notice.

## A. ROMAN \& CO.,

 $417 \& 419$ Montromerv Street.Gird's BUDDING KNIF'E
THE ATTENTION OF FARMERS, FORTHCELTURISTS AND CUTLERS, OR 1 manulacturers of Errticultural Implements, are reterred to the above No. 24 , vol. v .

## State, Terrijtory and workshop rights for sale at reasonable prices.

 Address,sepi-sm
J. SILVERSMITH, (Agont for Patentee, sep1-8m

San Francisco.

## 3ur $\mathfrak{B e a c t u n g}$ für Erfinder.

Erfinber, weldje nidy mit ber englijifer Spradje befamt fint, fönen ifre Mittigeilungen in ber beutiden Spradje madjen

Stizzen bon Erfinoungen mit hurzen, beutlial gefdricbenen Bejureibungen belicbe man zu aboreffiren an.

Jul. SILVERSMITH, Federal Building, Room 23.

## RASCHE \& SONS, <br> 131 Montgomery street., bet. Bush and sutter, San francisco <br> wholesale and retail dealers in <br> PIANOS, SHEET MUSIC INSTRUMENTS OF ALL KINDS, \&C., \&c.

Sole agents for the celebrated manufacturers,
A. A. GALE \& CO., New York;
T. GILBERT, Boston
C. MEYER, Philadelphia.

Whose Pianos they have always on hand, for sale and to rent.

## PIANOS FOR RENT.

New Music received by every steamer. New Music published. Music assorted and bound in the best style. A liberal discount made to the trade and professors of music.

## MUSIC! MUSIC !! MOSIC !!!

## A. K $\overline{O H} \mathrm{LER}$,

IMPORTER OF EVERY DESCRIPTION OF
Musical Instruments and Musical Merchandise. Sheet Music and Music Books. GENUINE ROMAN STRINGS, \&c., \&c., \&c.
Lighte's New Patent Insulated Iron Frame is put into all of Lighte \& Bradbury's OVERSTRUNG PIANOS.
$R A N K \quad A S$ THE FIRST AND BEST All the leading ${ }^{\text {gMusicians }}$ of the country have testified to their superiority.
Melodeons and Harmoniums, from the celebrated manufactory of

$$
\begin{aligned}
& \text { MASON \& HAMLIN } \\
& \text { Warranted superior to all others. }
\end{aligned}
$$

Send for a catalogue and Price lift.
A. KOHLER, Agent.

## Dr. Van Żandt,

Consulting Physioian and Surgeon, OFFICE:
Corner of Washington and Sansome Streets.
The Great Success of this Century, as an Aid to Practio cal Medicino.

The Mystetious Problem of Material Nature, Electricity: Made Subservient for the Cure of all Nervous and Spinal Diseases.

THAT THEIS PRINCIPLE, successfully applice to diseased states Of the system, is to prove the great sunght-for uecessity, long wanting dernugemente of the human body It in a part of the great principle of Fl-
tality knowe as norvous iullueuce and necesearily must have much to do in obviating diseased action.
In its praise; for it in bighly provale that in health there is an exact equiliurium of the ELECTRic priuciple, and should this secret and hidden equi-
poise of healih lie bruken or lowerod-shuuld the body be negatively elec-
 is there not a war of farces going on 1 n our system? Thus needs correcting?
aud iu order that the tissues of tue body should be nusceptible to remedial aud in order that the tissues of
agents $w e ~ m u s t ~ I r s t ~ r e s t o r e ~ a n d ~$
Awaken the Magnetic Life Within Us,
The spinal and sympathetic nerve systems. Belheving an I do most frmly
in 4 luls great magnetic or electrical inteneity of the carth, with ita in fiumelce in tuns great magnetic or cectrical inteasty or the caln, win its infueuce prexs, through which to awaken atteutiou to the subject, that good may come to all.

No Compromise with Disease.
Give the body strongth, and bature will relieve Lervelf. Purify the life Blood, render the stomach, liver, heart, kiduey and all the natural func-
Hous achve by EiLECTILIAL exclition, zad at once the aged, the palsied, the nervous, the dsspirited, the melancholic, the dyspectic and the invalid - under its benigu miluence

To the Ladieg of Califormia..
Dr. Van Zandt's success with complaiuts of womnen, both in family and
offico practico, is owing to his correct viows of the origin of all their malofice practice, is ow ing thisc with entire confidence, us ho is no opeculstor
adies. Ladies cuu consult him upon human ills-but is proving himself the ooly menaber of the legitimnte profession in California who is really successlul in removing those ilis which are the peculiar proviuge of the sex. Bis high appreciation of their deli-
cately alluned uervous organism, logether with their greut sympathetio cately atuned hervous organisis, together with their great sympathetio
ilfo, rouders him doubly a able to a asungo thoso silent complainugs which thoy bear so patiently andoso long. No social disquietude need longer al lict our home circles;
wouted tonicity of the body; a waken the melanclolic and despondinge; ar-
rest those draius which cause so much enxiety ; cure those protean malarest those draius which cause so much anxiety; cure those protean maladies which have so long
Baffied

Bafficd the Slinil of Phygiciang.
Develop appotite, life and animation, dispel nervous headacbe, finking at the stomach, wandering pains, wastiug awiy of strength ; extreme debility end lifelssaess, bectic cough, Bleeplessness, unpleasant ureams aud tha and death a boon. Dr. Vau Zandt, with his Dew method of exciting the Electro-Galvanio current, tingether with his remedlal measurea which are
adapted to tae necessittes of Califorvia, witl aspure you of a completo and adapted to tae necessities of Califoruia, will assure you of a complete and
radical recovery of ait bodily and mental infirmities, and will restore you
to usefulness, and spare you a bleseing to your fumily and to society. to usefulness, and spare you a bleseing to your fumily and to society.

## All the World Over

Wherever disease exists, whether special to the roil and climate or com
mon to all regions-upidemic or casual, acute or contagious-it is as necessary to reatore the ELECTRO-GALVANIC equibrium, especially in California, as it is to give food to the starving. This state ment is based upon a series of facts extending through many years, and vercfied by hundreds of patients so that no prinejple of science, no rule of
experience, no result of any well knowus cause, rests upon more sure and experience, no result of any well knowis cause, rests upon more sure and
unassallable fnundatlons, than those which underlie the worid-wide reputa unassailable frundatlons, than those which underlie the worid-wide reputa-
tion of Electricity for the cure of all Dervous states of the body, faulty dlgestion, mental and physical debility or prostration, coughs, asthma, wan dering pains of a rbeumatic, gouty or mercurial character, and all forms of
diseage, the result of scrof tia or caohectic babit of body,

## None Need Despair of Relief.

If you have ulcers wbich will not heal-pains that caunot bo removed-
melancloly whlch you cannot slake off-loss of power which you cannot remelancloly which you cannot shake off-lose of power which you cannot re-
gain-depression of spirits which weigh you down-wakefulness thatknows gain-dupression of spirits which weigh you down-wakefulness thatknows
yo alecping-business that languishes for want of enerisyno eleeping-business that languisheb for want of energy-a void which no
Hociety can fill-suspicion which no assurance can allay-Go to Dr. Van Zadt, for hia great succeas, and the affety with which he administers his adapted to the requirementa of climate and constitution, will assure you a radical removal of all bodily and mental ingrmitjes, within the scope o
science and man to removo. science and man

The fye and Far Diseasea.
It must not be forgoten by the eye and ear aufferers that Dr . Van Zaudt has made these afflictions an ospecial study, and that he is the only Sur gany of the eyeand ear troubles are purely deranged nervous actions, and are cured by his electro-galvanic battery-as amausoris, squinting, cataract, floating specks before vision, twitching of the eyelids, nervous deafness, roaring and buzzing noises in the ears, giddiness, otc. All operations succossfully done on those delicate organs of sense-
Oflce-Corner of Washjugtor and Sansome stree
nov29-3m

## FREDERICK KESMODEL,

## Cutler and Surgical Instrument Maker

 817 KEARNY STREET,Between Juckson and Washington streets,

## SAN FRANCISCO,

$\mathrm{R}^{\text {ECEIVED a diploma at the Fair of the Mechames' Institute, soptember, }}$ Ro 1858 , Ilsn in Sacramento in 1861 tor California made Cutlory. torested, is called to his anew method of fitling and adaptivg Trusses to the different eases, It is a well kuown fact that there has as yet been no system
of fitting Trusses. Thero aro many different stylos which have proven good in many cases, but they are all uncertain and cannot be r-lied on, and in gevere cases are altogether aseless. The following are some of the advan-
tages I claim for these Trusses ajove any and all others: First-The Pad is tages I claim for these Trusbes a oove any and all others: First-The Pad is Haviug a correct model, it enables me to make the Pad of any desirable
material, such as horn, ivory, etc. Third-The Pad is so adjusted to the spring that no moverment of the body will move or displace it. There are many other advantages. Examine and judge for yourselves.
FREDERICK KESMODEL,
P. M. S. CO.

PACIFIC MAIL STEAMSEIP COMPANY'S Poadine to PAlA, MA, connectung via the Panana Rail
mith the steamers of the dtlantic and Pacila road with the steamers of the
Steamship Company at Aspinwall.

## FOR PANAMA.

The following Steamships will be dispatched in the month of January, 1863.
Jan 21,21st-GOLDEN AGE, W. H. Hudson, Commander Will leave Folsom street Wharf, with Fassengers and Treasure, for Panama
at 9 O'Clock, a. M., punctually,
And connect, via Panama Railroad, at Aspinwall, with steamstips for New York.
For Freight or passage, appls to

> A. B. FORBES, Agent.
je4
Corner of Sacramento and Leidesdorif sts.

## TO THE CLOCK TRADE.


NEW HAVEN COMPANY'S,
(FORSIERLY JEROME)
CLOCKS,
Comprising all the Desirable Styles. Also a Large Lot of
Fancy Time Pieces
of neiw and beautiful patterns.
We shall in future bo in receipt of suffcient quantities of the above goods to supply our largely increased trade

HAYNES \& Law wron, Agents N. H. Clock Co. ja 28 tf Nos. 518 and 518 Sansome st. Cor. Merchant

## SQUARZA'S PUNCH,

## FIRST PREMIUM

at The sacramento agricultural state fair; FOR 1862.
ALSO; EIRST PRNMIUM At the Sian Francisco Bay District Agricultural Fair, 1862 Mantractoby, wholesatr afo metall, No. 44 Leids dorft street,
Opposite the What Cheer House, San Francisco.

## The Occidental Hotel Is now

Open for the Reception of Guests.
$T$ Hens Hovis Has ALL TRE MODERN IMPROVEspect to the first class huuses of the equaal in every re-
 been fitted up with special reference to the comfort and convenience of the public generally, havjug a news
siand and large Cabinet for minerals; also,
 The country. San Francisco, Jan. Ist, 1863.

To Mill Owners.
WAsteD, by a person fully competent to the pnition,
 Mine. The Applicant was engaged for about eight years
ns apperintendent of Copper Mising Works in Cornwall,
and as Superintendent of Copper sining Works in Cornwall,
and has acted in the same anpacity in Gold M Mines in this
State for the pact seren years State for the pact seren years. He has had much expe-
rience, in Cornwall, sis an Acsajer, a Machinest, rience, in Cornwalt, as an Assayer, \& Machinest,
a Draughsman a Surveyor and an Assorter oo Copper
Ore Ore. He can give ample testimonies as to bis capacity
for the for tho position he seeks.
Apply at this 0 俍ee

## PHILADELPHIA BREWERY,

 Second St, corner of Folsom, San Francisco Holscher, \& Wieland Proprietors, $\mathrm{T}^{\text {hankrul for past patronage to a discriminating }}$ public, we beg leares to aporice at diee same well known Brewery las bean pheruanently located in
our new premoises, on second stree-the former resiour new premises, onn seond street-the former resi-
dence of Capt. Frolsom where we sball endeavor to contine in frapisisking our numerous patrons with the best article of "Bier." We shall strive to perpetuete the the
good repitation for promptitude and the faithrul exeevo good repitation for promptitude and the faithful exeev-
tion of orders as herelofore, and thereby ucreasec our eustom:

PEOPLE'S
Steamiship Line! CONNEC'ING
CALIFO. TO A AND NEW YORK, vf nicaragua.
750 Miles Shon: etian 7 ay other Route
The Fast and Favorite Doublo Engino Stearnklip,
MOSFS TAYIOR, E. HOWES

## Will be dispatebed for

San Juan del Sur.
From Mission street Wharf
Punctually at $90^{\prime}$ clocks, $A$. M., on
WEDNESDAY, - - - MARCH 11. 1863 Connecting at GREXTOWN with the Splendid Steamship ILLXNOIS $\qquad$ ......... 2500 топя.

Reduced rates of Passage and quick trips are seoured
by the re opening of the Niesragua Route. by the re opening of the Niesragua Route.
and safety, and every effort will be made to insure the comfort of passengers
For further iuformation apply to
i $^{\text {a20 }}$ No. 497 Washingtion SLreet, opp. Post,

## DONAHUE'S

Union Iron and Brass Foundry,
Corner of Firest and Mistoon Strkets, San Francisco The First Established in the State.
M ANTFACTURE STEAAR ENGINES, Quartz Stampers, Amalgamators, etc., etc., st redused
prices. Hare now the largeet and best assortment o Gear and Machinery Patterus in the State, a list o which will be forwarded to Enynne desiring it, free of
cost.
PETER DONSHCE.

## LEWIS COFFEY AND RISDON, 

The only exclusively Boiler Making Establishment on the Pacinc Cosst Owned and conducted by Practiral Boiler Maters. All orders for jew Worl, the repairing to qualits.
Old Stand, corner Bush and Warket Streets. LEWIS COFFEY $\quad$ Opposite oriental Botal, San Francisco, Cal. J. N. RISDON.

GREATREDUCTION IN PRICES.
STANEORD BROTHERS, 121, 123 and 125 California Street,
Keep the Largest Slock of all Kinds of Lamp Stock
And will Sell Cheaper than any other
House in this State
Lamps, Chmnexts,
Wices, Camphene,
Burning Fílum,
Alcohol, Coal Oris,
Turpentine, Kerosene OLI,
COMET HLUMICATING OIL,
Sperm OIL, Lard OIL,
Machinery Oil,
Rape Seed Out,
China Nut Oth,
Polar Oill,
Linseed OLi, Raw and Boiled,
Shark's Ot,
Neat's Foot OLL,
Tanners OIL, Etc
Our customers in particular, and the country trade gen-
erally, are requested to ascertain eraly, are requested to ascertain our prices before pur-
chasing from traveling agents, as we will sell at less chasing from trareling agents, as we will sell at leag
rates than thoy can affori to.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel
THE SIMPLE, COMPACT, STRONGAND
effective manner in which it is applied to any beight of fall, (3 fect to 300,) and to any kind of machinery, wil Save in Transportation. Material and Labor, from 25 to 50 Iper cent. of the entire cost of the Structure to which it is applied, and proportioually incresse its value.
For full information from the Ioventor, apply at the Miners' Foundry, trom 10 to 11 A. w., or address

## J. M. BETH.

Miners' Foundry, San Francisco
which This Wheel is fully gearantekd. Jan19-tf

## Holiday Presents: !

IN
W ATCHES

## DIAMONDS, JEWELRY AND

SILFER WARE

## BRAVERMAN \& LEVY'S,

 621 Wasnington Strcet,We call the atrentuon of our Friends and the public in geoeral to our well assorted stock
JEWELRY AND SLLVER WARE, of the latest and Most Fushionable styles, which w have received by the last Steamer. ALso,

FRENCH CLOCKS,
PRECIOUS STONES,
Which we are selling, SET or UNSET, at the very LOWEST PRICES.

BRA VERXIAN \& LETY,
No. 621 Washington ${ }^{\prime}$ '
Dec 29 1m
RRO. G21 Wash LEvton 's'reet,
Facivg Maguire's Opera House
LEANDER RANSOM, Civil Engineer AND
SURVEYOR, Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO
STATE LOCATING AGENT.
And as such having the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre. Terms-Twenty per cent in cash and the balance on a credit of several years.
OHFICE: Second floor of Express Building, N. Fe corner of Montgomery add California streets. oc7-3m

## Agency For Patents.

1 UEE ONERETGNED having been long established in
THE ONDERSTGNED having been long establnhhed in
 for the securing of Cavears and Patents also, will at-
ten to the sales of Patent Rights, and to ail matters WETHERED \& TIFFANY
connected with phtented inveotions, Office, 410 Montgomery street.

CHARLLES R. BOND, (Late City and County Assessor.)
REALESTATE AGENT,
No. 410 Montgomery street, San Francisco. REAL ESTATE PURCEASED AND SOLD, AND LOANS кegotlated.

For Sale Cheap! A Horizontat steant Engine of
 capable of driving a ten
original cost. Apply to

> orig

Federal Building, cor. Battery and Washington'

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek, SAN FBANClico.
CLEAR GOLD BEARING SULPGURETS WORKED AT
 higher Ahan the BEET ABIALGAMATION PROCM,
perien Aparatus for separating Suphurets bet up by exmill ourners. No power nor clean water required for
he purnose. he purpose:

SQUARZA'S PUNCH. home manteactort.

WLTLERALS AND RETALI,
No. 44 Leldesdorf St, near Sincramento. Branch at 406 Montgomery street.

JULIUS SILVERSMITH,
Commissioner for Nevada Territory, OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington streets.,
Room 23, up stairs.
$\mathbf{W}^{\text {E WOULD RESPFCTFULLY }}$ SOLCTT FROMY THOSE ed Territory, a share business relationswith the above nam-
 the drawing ap of a fidavits, ack Dowledgments, the tuking of testimeny, elc.

JAMES PHELAN,
(Late J. \& M. Paslan,)
IMPORTER AND JOBBLR,
Wines; Liquors, Etç, Etcy
Nos. 616 \& 618 Front street, Botween Jackson and Pacific Streets,
Estubliahed 1849 .

All Goods Guaranteed. Orders Solicited. TERMS LJBERAL. JAa. 1-tt.

THEODOR KALLENBERG,
Maker of Models FOR INVENTORS.
 ical Justruments, Scalen, Weights, etc.; Repairing of Machinery promptly attended to.
No. 4 Sansome street, corner Draxk No. 4 Sansome street, corner Maxket,
sul. 3 m )
San Fraucesco. au7.3m)

PALMER, HANSCOMB \& CO; GOLDEN STATE FOUNDRY

AND MACHINE WORKS.
First Street, near Market, San Franeisco,
$\mathrm{R}^{\text {ESPECTLULLY SLICITS ORDERS for all kinds of }}$
$\mathbf{R}^{\text {ESPCTHELY}}$ MACHINERY, for Mining nid other purposea Please send Plans and Specigcations.
Having the roost conplete arrangements and appoint-
ments for finishingand executing mente for finishongand executing auy and all kinds of Castiags and Maenitery on this Cnast.
San Francisco, November 29, 1862.

## 50 lbs . MARINE AND

Fire-Proof Paint,
 from ground Mineral Rock contains Arsenic, Copper, $1, i-$ tharge and six other Minerals. When used on the Deck or Bottoms of ships, it is equal to a coat of stoue, and quite equal to Copper, no worm
cheaper than amy other paint.
DIRECTIONS :

For Decke of Ships, use two parts Mineral Paint, one
For Decks of Ships, use two parts Mineral Pajnt,
part White Lead, mixwilh Liseseer Oil.
For Bottons of Vessels, use one part ground sulphur, For Bottons of Vesscls, use one part ground sulphur,
three parts Mineral Paint, mix with Coal Tar and apnly it hot. For sale by all Ship Chandlers and Tradesmen, in boxes For sale by allShip Chandiers and Tradesmen, in boye
of 50 Its. each, or by the Pacife Metallurgical Works.

25 POUNDS FIRE-PROOE PAINT.
When used on Rooff, Buildings, or Fences, it is equal to covering them with a coat of Stone, being perfecuy
Fire Proof, and coasting less than any paint. DIRECTIONS :
HOUSE :-Mix three parts Mineral Paint With one par whanted, mix less paint, more lead. RouF:- Five parta of Mineral Paint, one part white
Lead; mix with Linsued oil. Put it thick on a tin Ruof Lead; mix with Linsced oil. Put it thick on a tin Ruof
as one coat when properly appliedwill last three years.
S. U. BRADSHAW, Agt.,
W. T. FOVQOs, Superintendent. Ofice, 318 California st., Sun Francisco.



## THE FLOOD IN THE OPHIR

Thי "Incal" of the Territurial Enterprise, in the issue of Tanuary 21 st, \#rive a particular accuant of the recent intua of water inte the Ophrand Mexican Mines, in Virginin ('ity, from which we combense, as fullows:-
The watur was stuek in the OI hir abut noon on Sinmelay the 15 th inst. Some hamle were working in a western lrift, and upon strking their pick: hrongh the clay casing of a ledre, (the Viremina prubalily) a thit $y$-five or forty-inch stream of wa'er burst furth. It is said that the men linati to drop everything and run for their lives-it was no time to (ioul away brecious mumme in tryiner to lug their tools away with them. Althenghthe. Ophir and spanish join ench oth r, the men in the latter dib not know of the accident which hal befuflen their neinhlurs until some four hours after its occurvence. This breew the Epanish folks sumewhat be himbland in preparing :avainst the trouble so suon to come $\mathrm{c}_{\mathrm{i}}$ min them.
The stream, at the time of the visit, some 50 hours after he water had burst in, was still suthe 2.5 ro 30 inches. It had hen formed a kind of sub,terranean lake abour 21 feet deep if 30 in width and 100 in length, and was still rising, in ite of the utmost efforts of the pumps to kecp it down, of churse all mining op rations were at once suspended and force of aboat 8u men set to work putting in extra timberfar to secure the mine from caving when its sides above the hen water mark should bo submerged.-

Ore Tests.-Several inquiries have been made to us of he different chemical tests that will discover traces of sil er and copper in the rock. Il wur frients who ure conver ant with this matter will forward inlurmation respecting weh chemical tests to us, we will be hapny to give thern publicity. [Amedor Ledger:
Persons interested in the above wil find the desired in Wration, and much more in the same connection, all valu ble to copper and silver prospectors, in late nambers of this saper. A remittance of six months or a years subscription , the Mining and Simentific Press, will afford them all the aluable iufurmation oltainable from books in relation to brospecting for either silver or copper, and assaying and esting ores of the same. 'The dissemination of that clas If information is the speciality to which this paper is derofed, and no mineral prospector in the silver and copper re sions of California can invest $\$ 4$ to better adrantage than by seuding the same to this office and becoming a subscriber and reuder of the Press. We shall be extremely happy to receive the names of all who may favor us with cash patron age. We also pledge ourselves at the expiration of the gear to refuud to any party double the aurount of his subs. scription, who may honestly think he has not got the worth of his money in valuable information from our colums.

A Long and Expensive T'unnel.-According to the Butto Recorcl, the Eureka Tunnel Company having succeeded in runaing their tunnel throurg the rim rock, on Table Mountain, [near Orovillo] commenced washing on 5th January This tunnel, we believe, is about 2,000 feet long (throngh hard rock) and has taken neculy seven years to completo

The enal mining internst of Califurnia is bergiuning to assume an arpeet of no incursiderable importance. Although the coals hitherto produced are gencmully of an inferiou quality, the indications, in scveral localities, are su ha as fully wartat us in cxpreting great imporements in this particular as the excavations grow deeper. The Healsburg Coal Mining Company in Somona county, are so well satisfied that such a result may be expected, that they have decided to sink their main shaft, Thy 31,2 feet in size, (which is now down abont $6 \overline{5}$ feet) to a depth of two hundreel feet. The work in this mine is being pushed forword wi h energy The coal niw being tiken from this mine finds a ready market in this city, at $\$ 12$ per ton.
The Folsom Compaxy, whose mine is a recent discovery have gone down some 15 feet in the ledge, the coal improving in quality as they descesd. The mine is located on the American river, about six miles below Folsoun: According to the Telegraith, printed at Folsom, the owners are greatly elated with the discurery
Prosprcting for Coal in tufe Mountans. - A shaft is now being sunk for coal at a point about two miles west of the Half-way House, Carson road from Placerville. Large quantities of a substance resembling liguite, and suffeiently carbonaccuas to burn under the blow-pipe, have been found at that place. The parties engaged mostly reside in Car son.
Colin in Tulare County,-A seam of coal was recently discovered, in the vicinity of the Slate Range, Distriot, in the Southern part of the State. 'The scam, where it crops out, says the Visalia Deltr,, is four feet thick, and the coal, even, from the top, burns freely, giving out'a grent deal of heat. That paper thinks it is what is called "soft coal" in the Lasteru market:. 'I he location is some 18 miles from the Morrow lead, in a southwest direction, with a level country intervening. The effect of this discovery has been to advance the rrice of ev ry foot of ground in Slate Range 500 per cent. more than it was a week ago. The lncky dis coverer himself will und ubtedly realize a fertune.

Cnst.-England produces from her istand mines more coa than any other nation ; and yet the coal mines of the United States corer a greater aroa, in square miles, than the whole area of the British islamds.
The auriferous a d argentiferous lands of the United States, and those solely on the Pacific coast, are greater in extent than three such kingdums as Great Britain and Ire laud together
Stretching a Fuint.-Commissioner Boutwell, in addi tion to other taxes on publishers, has deciled that they must take out licenses as "dealers"-because they sell papers to newsboys. What next 1

A Ratlitay has been completed across the Prenees The rond has been constructed at a cost of about $\$ 12,000$, 000. It has been built, exchsively, with Spanish capital The masimum grade is 76 feet to the mile.

DISTROYING IRON-CLADS AND OTEIFIZ WAR VES-
Some two or three months since it was announced that Mr. Whittaker, an engineeer on board the U. S. Sloop of War, Kearsage, had devised a plan fur destroying iron clads and other ressels of war, which appeared so practicable and of such national importance, that the enginere was inmediately dispatched from his post to Washington, to commuuicate directly with the Federal anthurties in that city. It is now still more apparent that there is sumedhing in the alledged discovery ; at all events, the plan is to be tested as appears from the following:-
The iron-clad steamer Ozark. 2, now in conrse of construction at Mound City, eight nilus above Cairo, Ill., is about 110 feet in length, will hare four propellers, and a turret, twonty feet in diameter, for two largu fins., The boilers are in and the armor put on for about sixty fect on both sides. First Assistant Engineer James IV. Whittaker is examining the vessel, with a view to apply his new invention for the destruction of ion-clad hoats of all kinds, haring been ordered there by the Secretary of the Navy for that purpose. It would not be proper to explain what the nature of this invention is suffice it on say that Mr. Whittaker has letters frum chicf engineers in uar navy and other scientific men, including Caplain Lricsons princinal engincer, wherein they express their utmost confulnce in the plan, and recommend a trial speedily. Commmer Porter is said to be highly delighted with it, and gratified that he is to have the first opportunity of testiug it.

LAKE SUPERIOR COPPER PRODUCT.
The Iake Saperior Miner sums up the probable yield of the Lake Superior Copper District, for 1862 as follows :"As intimated last week, our miues did better the past season than any one supposed they wonld. The shipments of mineral are larget, an I the percentage will certainly compare favorably with any past year. Fstimating the mineral in round numbers at 2,500 ton $=$, and its percentage at 70 , and we shall realize 1,890 tous of ingots from the year's productions. This metal, at the last market quotations, was worth 33 cents per 1 ib . or $\$ 660$ per $t$ n, and allowing the $\$ 60$ to cover freight, insurace, and smelting clarges, and we have the present net va'ue of the year's production, 1,890 tons of metal, @l, $\$ 600$ per ton, $\$ 1,134,000$. This is of course many thousands of dollar's more than wi I be realized on sales, as much was disposed of at lower fignres. According to the best data we now have, the mineral shipped from the lake the past season, will not exceed 7,001 ) tous of ingot copper, the sales of which, past and, future, will doub les average higher than last year. The amount realized from the crop of 1861 , has, we believe, generally been estimated at $\$ 3.500$,000 , which is not too high for 1862 .

Sirver in Nova Scoma.- $\Lambda$ letter from Nova Scotia states that, in prospecting for gold in the northem and eastern portions of the province, the writer found silver, as well as gold, in great abundance; that in every panful of earth washed from the stream be found pure metal: and veins of spar containing native silver trarerse the mountains on each side of the river, and are exposed. at some points along the sea-shore.

NEW MINING AND COLONIZATION ENTERPRISE.
Some months since an association of gentlemen in this city, dispatched two Agents to Lower Calfornia, for the purpose of selecting some suitable locality in that country, for establishing an American Colony for Agriculture and Mining purposes. One of these gentlemen was intimately acquainted with the Spanish-Mexicau character and spoke the Spanish language. They started upon their mission, and spent several weeks in exploring that region under the escort of a Mexican Guide, and at last selected a location known as the Llanos de Musquital (plains of the Mosquite, a very valuable timber) and lying immediately between the mining district of San Antonio, Cachachili, Ranchita and Las Canoas and Vartana Bay, at which latter point a site has been selected. The steamer Oregon, Capt. Wakeman, passes near this point on her monthly trips from San Franciscu to Guymas and other Mexican ports, and will stop for passengers when requested to do so.

When the object of their mission was made known to the authorities and inhabitants, the plan met with their most hearty approval and encouragement, and a grant of 125,000 acres of rich agricultural land, embraciog a valuable silver mine, was readily obtained, one of the conditions of the grant being that the grantees should introduce a certain number of settlers thercupon within a certain tims. The agents having returned to this city, the Company has fully approved of their action and opened an office at North-west corner of Clay and Front streets, where full information of the plans and prospects of the association can be obtained by those who are already engaged in the enterprise, and where any others desirous of uniting with the same are requested to call. By the payment of $\$ 200$, any person who can bring to the Association satisfactory testimonials as to character, etc., can become a member thereof, and joint owner in the grant, mine, town-site, etc. The number of shares is limited to 200 . All who come after, must come simp'y as purchasers, having no interest in the grant.

We have seen a private letter from the U.S. Consul, at La Paz, which speaks in the most favorable terms of the Enterprise, as embracing a tract of land very fertile and susceptible of easy irrigation. It produces native cotton, which grows wild to great perfection, samples of which, on the stock and on the ball, may be seen at the Company's office; where are also exhibited specimens of the ores of gold, silver, copper, etc., which abound in all the mountainous region of that country. Sugar-cane, tobacco, Indian-corn, etc., are raised there to the greatest perfection. The letter to which we have already alluded, states that the project meets with the heartiest approval of the people of that region, and that the colonists will meet with a most cordial welcome on their arrival.

All these facts and many others of importance and interest may be ma refully learned by calling at the office of the Association. From the information before us we feel justified in expressing the opinion that this Enterprise is one of promise, and well wortlyy the attention of any one who may feel disposed to seek a change of climate and country, or who would wish to embark in any adventure which night present a fair prospect of securing an early competence from a small investment of money and lubor.

The Calaveras Chronicle urges the importance of having manufactories established in the mountain regions for the parpose of making wines. It aays:-

If a company were to put up a wine press and cellars in some central place in this county, it would not be many years before a sufficient quantity of grapes would be grown to afford us a constant supply. Not only our ranchmen, but the miners could each have their patch of vines, from one to five acres, and, in the aggregate, produce tons of luscious large grapes. If business mea would turn their attention to making wine instead of beer, soda water, \&c, we would soon have brands of California wine manufactured in the mountain towns which would vie with the most celebra'ed now known in the market.

Sinaloa Silver.-The Cosmopolitan, published at Mazatlan, speaks quite higlly of the silver mines in the State of Siualoa. Mr. Joseph Capprise, of this city, has recently purchased some minesin that country, which are said to be good. He brought a ton of specimens with him on the Oregon.

## IVALUE OF MACHINERY IN WAR.

As the battery of the iron clad steamer Montauk weighs thinty-five tons, it is interesting to know that her entire chew will be less than seventy men. An old frigate required a ship's company of three kundred sailors and landsmen, and a guard of marines. These would man four of the new fashioned ships, and while every 32 -pounder on the frigate required the labor of 12 mell, the 450 -pounder of the Montauk is easily moved by four. This fact affords another remarkable illustration of the adaptedness of Yankee ingenuity to any emergency which may be presented. Without the aid of the newly invented machinery for working ship's guns, it would be utterly impossible to place such huge monsters as 450 -pounders with the other necessary smaller armament, on the deck of any ordinary sized vessel, and with these the number of men and supplies which would be requisite to work guns even on the most improved principles heretofore in use.

Silfer Discorery in Pensilctania.-Quite an excitement has recently been created in Butler county, Penn., by the discovery of a silver lead on the farm of Z. Cooper, of Slippery Rock. In relation to this discovery the Pennsylvania Herald asserts that the exi-tence of silver in this locality was known by the French during their occupation of Fort Du Quesne-Pittsburg-anterior to the Revolutionary war. Crusibles and other apparatus have recently been found in the vicinity which aided the recent prospectors in their search, which has finally resulted in a re-discovery of the mine. Mining operations are to be immediately commenced and works erected for the reduction of the ores.
Disasters and Losses at Sea.-The number of marine disasters, which have occurred to shipping engaged in the California trade, during the year 1862, as given by the San Francisco "Mercantile Gazette and Prices Current," is 112 ; 41 of which have been total losses. The amount of property thus sacrificed foots up at $\$ 6,518,189$. The losses oi the previous year were $\$ 1,722,247$.

Business Lossess.-From the reports of the mercantile agencies it appears that there were fewer failures in business in the Northern States, during the year 1862, than in any other year since 1830. The following table tells its story :

Fa lures in 1861.
Failures in 1862.
Number. Liabilities. $\begin{array}{rr}.5,935 & \$ 178,532,170 \\ .1,659 & 23,649,300\end{array}$
This is a good exhibit. It is also worthy of notice that unembarrassed bu:iness firms, especially those in the cotton trade, never made money as during the past year.

Putty.-Notwithstanding the insignificance which usually attaches to this article of merchandise, it sometimes figures as an important item: For instance:--The Virginia City Union says the amount of putty used about the Gould \& Curry mill has been enormous-not less than two tons is said to have been used in patting in lights and filling crevices, preparatory to painting, in and about that huge estab lishment.

Liability of Car Drivers.-A case which may soon have importance in San Francisco, has recently been decided in New York, in which the Court held that children of tender years, who may be injured while upon city railroad tracks, cannot be deemed goilty of negligence. In case of injury, therefore, to such persons, the sole respoosibility rests upon the driver, who, having the ability to stop the moving car, does not do so.

A Printer in Lock.-John Heckendorni, a resident ot Tuolumne county, has recently discovered a quartz lead, which prospects $\$ 879$ to the ton, being rich in both gold and silver. What proportion of the lead prospects at the above rate, we are not told; but, from all accounts the vein appears to be rich, and affords a fact of rare occarrence-a printer in luck.
Braring--It is intimated in Washoe mining circles that the El Derado Company has been suljected to a most exten sive and determined system of "bearing" during the past two or three months, and that the advertisement of the loss of 500 feet of its stock, as advertised in the Sacramento Union is an essen:ial part of this operation.

Unsuita ble Reading for the Army.-The Chaplain of the 2nd Massachusetts Reginent, in giving some good advice in regard to donations to the soldiers, thus bumorously sketch es the kind of books and tracts that wortliy people send, in the igtorance of their zeal, to the camps and hospitals:-
Gifts-we come to that-are sometimes useless. I have before me a lot of tracts addressed to sellers of ardent spis its ; that business is not carried on by our men. I have had a) quantity addressed to distillers; but we have no distillersi And tracts to Sunday school childreh, on their behavior it Sunday school, which is of another meridian. And tracts to Sunday school teachers on the preparation of their lessons, or how to greet their classes, and on visiting their pupilswhich is a work adapted to places where there are chiddren. And tracts on dancing-a fault to which there is little lias bility-as I remember but one instance, and I was glad when that took place-on the ground, closing at tattoo. could multiply the list, but you have specimens. What do we want of the unsaleable lumber taken from cobwebbed shelres of some institutions glad to get rid of it-but reckoning it at the usual price in their demands for more contri butions? Or of buudles of worn out Suuday school books? Or of piles of volumes of some Christian truth adapted to certain states of mind, of which ten copies are enough for a year? Or of tracts attacking Catholicism, to distribute which, even by chance, would effectually destroy all influence with many uen, even if a chaplain was fool enough to suppose it his business to try to make Protestants-which tracta I have carefully put into the fire?

Again, many bundles of good readirg are mere heaps of duplicates of what has alro ady betn widely circulated. Societies cannot tell what has been distributed, and they glut the market with some particular work, or volumes come to be thrown away the frst march.
Or works which excite only ridicule. For instance herif is a little bouk entitled "Valuable Hints to Soldiers," is-ued in Cornilll. It tells what a soldier needs: A "Bible; le does n't ; he needs a T'estament. A "cheap portfolio of he disengages the tube to smoke through. "Three flannel undershirts, ditto drawers, four or five pairs of woolen: socks!" I wish the man who wrote this had to march tho 800 miles our men have, with such a load on his back. Then t tells us that the soldier "should never sleep at night in the flannel shirt, drawers or socks worn during the day. How, when off on picket duty one night in two or three? How, when, at the close of a march he is too tired to do arything? "No one should on any account be in wet clothing." Suppose he bivouacs in the rain, as we have over and over again? Suppose he changes, and gets out again, mmediately? "Blankets must be aired in the morning." Of course, when up by fore daylight to march on, with justtime enough to pack one's knapsacks. "Soup may be omitted one dinner, and beef at another." How many courses do soldiers have? They are glad enough to get one article, even if they get down to green corn, as we all did on thes Rappahannock. "Never be afraid of good beef." No, nox of turtle soup or blanc mavge. "An entire meal should never be made of beans." What will he eat then, when beans are the only dish? In certain cases "increasing" thei quantity "of vegetablee." He can't increase it, especially à two-thirds of the time in marching he does not have any, Soldiers laugh at such directions. It may be a very good book, but it does a't suit the lattitude of a regiment that has been out a year and a half.

A Company is being formed in this city to raise trout by artificial means. They propose to create a trout pond near the Chrystal Spring House, San Mateo county, and impor trout spawn from Lake Bigler.
Mining Accidents.-The mortality from accidents in cos aines may be taken as fullows: In Prussis, 1.89 per 1,001 persons per annum ; Belgium, 2.8 ; England, 4.5 ; Stafford shire, 7.3.

Intertor Treasure Morement.-According th the Price Curvent, the receipts of treasure in this city, from the ints rior during the ten days prior to Thursday last, wer about $\$ 920,000$ in uncoined treasure, and $\$ 230,000$ in coil About $\$ 121,000$ was received from the Gould \& Curr Mine.
A Big Dividend.-The diridend declared by the Goul \& Curry Mining Co., on the 26 th inst., is $\$ 100$ per foot, an the Stock is now held at $\$ 3.250$ per foot-an enormous a vance on rates sixty days since.

Mining Surt.-The Hale \& Norcross Company commen ed a suit in the District Court, Virginia City, on the 17th ul os. the North Potosi, for possession of certain minir ground. The former suit was to quiet title-the presel s for possession of a certain "drift," now held by the Nor Potosi Company.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

Burning Moscow,-Shares of this Company, in arrears r assessmente will be sold at auction, Feb. 9.
Baltimerte Anmerica ('unsolidated.-Anassessmeat of 50 uts per share was levied, Jan. 5 .
Savage:-An assesiment of $\$ 35$ cents per share was lev-
Hawler.-An assessment of 25 cts . per share was levied an. 5, piyable in 30 days.
Cole A. M. Co, - An assessment of One Dollar per share as levied, Jar. 10, payable, Fob. 1.
Conited States M. ('o.-An assessment of six and twoirde cts. per share was levied Jan. 10, 1863, payable to the fuperintendent at the mine, or to the Secretary, Rooms nid 8, Government IIouse, Sim Franciseu.
Sierra Nevada \& M. Co. levied an asscssment of \$15 per hare, Jan. 15 -payable Feh. 18.
Lady Bryan.-An assessment of 70 cts. was levied, Jan. 3, payable on or befure Feb. 16.
Idu (t. eS. Co. (Russ District)-An assessment of \$1 vas levied, Jan. 14.
Henry Martin G. \& S. M. Co.-"Thomas Wallace, Truse." gives notice that whereas certain parties illegally claim$g$ to le Trustees of this Company, have clanged the name
f the Corporation to the Nurth Star G. \& S. M. Co., and Ilegally elected ufficers for the same, the public are cautionpl agruinst such acts, etc.
Red. Wumf and Blue G. \& S. M. Co. Ievied an assessnent of 25 e ats per share, payable on or befure Feb. lst, orlice cor. Pine and Montgomery Sts.
An assessment of $\$ 35$ per share was levied Jau 6, payaleimmediately, at office, No. il2 Montgomery street.
Iona Copper Mining Company.-The annual meeting of tockholilers for the election of offcers, will be held, Jun. 3, at office, No. 502, Montgomery street.
Live Oak Copper Co.-The Annual Meeting of Stockholders for election of Trustees, will be held at Office, in Montgomery Block, Feb. 2, 1863.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share was levied. Dec. 26, 1862-payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.
Savage Mining Co.-The Annual Meeting of the Stockholders of this Co. will be held at Office, 712, Montgomery St. Jan. 13.
Union G. \& S. M. Co.-The regular quarterly. Meeting will be held, at Office, 410, Montgomery St., Jan. 19.
The Madison G. \& S. M. Co. advertise names of parties who are in arrens for assessments, and give notice trat their stock will be sold on the 29 th day of Jan. unless said assessments are previously paid.

Frauco-Americano S. M. Co.-The following persons were elected officers at the meeting of trnstees, Dec. 26thChas. F. Gaian, President and A. S. Gould, Secretary. The office of this Company
528, Clay street, Room No. 2.

Central Silver Mining Co.-The Annual Meeting for the election of Trustees will be held Jan. 13, at Office, No. 712 Montgomery street.
Lady Bryan G. \& S. M. Co.- Shares of delinquent stockholders will be sold at auction for asseasments, at No. 400, Montgomery steet, on Jan. 27.

Desert Mining Co.-Shares of •elinquent stockholders will be sold at auction, for assessmenta, at No. 400, Mont gomery street, Jan. 27.

Wide West Mining Co.-The Jecretary of this Company publishes an important notice to Stockholders, in the daily papers.
Reese River Mining Co.-Ten cents per share has been levied upon the capital Stuck of this Company, payable Jan. 14th.
San Francisco S. M. Co. have laid an assessment of $\$ 25$ per share, payable on or before Jan. 1st, 1863.

Pacific Quicksilver Mining Co.-Assessment No. 3, of \$1 per share was levied, Dec. 22, payable immediately.

Keystnue Copper Mining Co, adrertise for preposals to purchase or tre
till Jan. 15 th.

Mammoth Ledge Mining Co. give notice of an assessment levied and payable on or before Jan. 13th. Also that the first annual Meeting for the election of Trastees will be


Hale \& Norcross S. M. Co. have levied an assessment of $\$ 5$ per share payable on or before Jan. 26th.

Mareditu Guld \& Silubr Minisg Co.-An assessment of two and a half dollars per share (five dollars per fo $t$ ) was levied by this Company. Dec. 11th, payable imnediutely, at office, 712 Montgomery sit.
Bendow G. \&E. S. M. Co.-The Stockholders are notified that thes will hear something to their advantage by calling at the office of tho Company, cor. Piue aud Muntgomery Sts.
Emarrt G. \& S. M. Co.-An assessment of twenty-five cents per share was levied, Nov., 2lst at.d is now due, aud payable at office 326 Clay St.
Vibbard G. \& S. M. Co.-An assessment of 25 cents per share was levied, Nov. 21st, and is now due at office 326 Clayst.

Doyle G. of S. M. Co.-An as essment of 25 cents per sharo was levied, Nov. 21st, and is now due at office No. 326 Clay St.

Charles Ciny Mintang Co.-An assesment of $\$ 150$ per share was levied on the stock of this Company, Dec. 14th 1862, payable on or before January 14th, 1863, at office, 338 Montgomery St.
Live Oak Copper Mining Co.-Office, Montgomery Block - An assessment of thity cents per share wus levied, Dec. 1st, 1862, payable in thirty days.
Norti Potosi Silver Mining. Co.-An assessmeat of four dollars per share was levied on this Company, Dec. 11, 1862, parable on or before Jonuary 16th, 1863, at office, Cor. Buttery \& Washivgton Sts.
Iowa Mining Co.-An assessment of Four Dollars per share was levied, Dec. 4th, payable at office 522 Montgomery St. on, or before Jan. 3d, 1863.
Josernine Mining Co.-An assessment of iwo dollars per share was levied, Nor. 19th, and is now due and payable at office No. 21 Stephenson House.
Buraside S. M. Co.-An assessmer.t of one dollar per share was levied, Nov. 17 th, payable within 30 days, at office $\uparrow 12$ Montgomery St.
Hawley Mining Co.-An assessment of 50 cents per share was levied, Nov. 15th, payable at once, at office 204 Front St.
American Quicksilyer Mining Co.-An assessment of one dollar per share was levied, Dec. 16 th , payable at Company's Office, in Petaluma, within 30 days- $A$ t the expiration of which time delinquent Stock will be sold.
Burning Moscow S. M. Co.-An assessment of Two Dollars ree share was levied, Nov. 25 , for the purpose of de traying expenses of steam pump and machinery now being erected to drain the mine. Prompt payment is requested at the Company's office, corner of Mon'gomery and Jackson Sts., to Jos. P. Nourse, Sec.

## WASHOE MINING NOTICES.

Martin White.-An assessment of 20 cts. a share was evied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cts. per share was levied. Jan. 14. pryable at Office, cor. Sutton Avenue aud O St., Virginia City.
Normon S. M. Co.-Middleton \& Sons, No. 40, Mont romery Block, will sell delinquent stock of this Company February 16 th.
Baltic Miving Co.-Notice is given of an adjourned sale of shares in this Company, to take place on the ground, Jau. 31st.

Progress G. \& S. M. Co.-An assessment of 20 cents per foot was levied, Dec. 27, 1862, payable forthwith.
Sweesy Co.-Washington Ledge--An assessment of $\$ 10,000$. being $\$ 51 / 2$ per foot-was levied on the stock of this Comyany, Dec. 28, payable at the Secretary's Office. Medan Building.

Miners' Merting.-At a meeting of the shareholders of the Siegel Mining Company, it was resolved that a meeting be called of all the miners of the Siegel Mining District, for the purpose of making laws by which said District may be governed, and that said meeting shall take place on the 15 th day of January, 1862, in said Siegel District, in or near a certain place better designated as the Siegel Min ing Company's Cabin.
Caution-D. M. Tyrell warns persons against purchasing certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See Territorial Enterprise.)

Ashland Co.-L. A. Gould, in the name of the Moss Ca notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Askland Co. is forbidden to extract any valuable metals.
Eldorado G. \& S. M. Co.-An assessment of one dollar
per share was levied, Ded. 31, 1862, payable, Jan. 22, 1863, to the Secretary, at corner of Montgomery and California streets, or to the Superintendent at Virginia City.
La-Plata Oro Co.-Gold Hill District.--An assessment of wo dullars per share was levied, Dec. 26, payable at once,
at Office of the Secretary, Court-house Building, Virginia City.

Texas Co.-Tennessee Ledge.-An assessment of 25 cts per foot was levied, Dec. 22, payuble on or before Jan. 21 1863.

The Regular meeeting of the Company for election of officers, will be held at the Comet Saloon, Firginia City, on Saturday, Jan. 21.

The North American Co., Gold Hill, will sell at auction Jan. 31, stock of shareholders deling aeut in puyment of sesaments.

Martin White Mining Company.-An assessment of ten oents per foot has been levied, payable to the Secretary, at cffice on O Street, Virgivia City,

Tue Sweeney Co., Guld Illl, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.
Pogrmax G. \& S. M. Co.-An assesement of Five Dollars per share was levicu, Nov. 9th, and another of Ten Dollars per share, Nov. 21, payable at once to the Eecretary, R. J. Mi.chel.
Coledonia Tunner and Minina Co.-An assessment of Thirty-two Dollars per share was levied, Dec. 8th, payable immediately to the Secretary, Martin White.
The Chaney Rock Co., lying next west of the Tirginia Co. claims hare notified the Hazel Green, Tingley and Biach \& Paxton Companys that they are tresspassing upon the Chimuey Rock Co's ground.
La Crosse Mining Co.-An acsessment of $\$ 125$ per share was levied, Dec. 8th. payable at office 73 C Stieet, Virginia City.
Hawi Eye Silter Mining Co-An assesment of 25 cents per foot was levied, Dec. 6th, payable immediately to S. A. Kellogg, Sec. Gold Hill.

Monegan Co, Cedar Hill--An assessment of fifty cents per foot was levied. Dec. 5th, payable forthwith, to the Secretary at Virginia City.
Oriental G. \& S. M. Co- -7 he 3 d assessment of 15 cents per foot, was levied, Dec. 8th, and is payable at office, No. 31, C Street, Virginia City.

## ESMERALDA MINING NOTTCES.

The Zanobia Lade Company, give notice that they claim Euperior title to the Johnson Co., claiming the same ground, so far as said localities conflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J. C. Dorsey, S. P. Dorsey and James Elder,

## MINING AND SCIENTIFIC PRESS.

THE ONLY MINING, MECHANICL AND SCIENTIFIC Paper on this continent.

## THIRD TEAR: VOLUME TI-NLN SERIES!

A uew volume of this extensively circulated paper commenced Sept. 11,
1862. It is intended that evory number shall be replete with inform 1802. It is intended that evory number shall be replete with information with for its columns.
This its columns.
of science, artepoted to the above purposes, together with the interests that may bo of interact to the and Commerce, and any general information or to spare no paius or expense in making it is that in interest and valuable oformatiou to any paper yet published.

## The Mining Interest!

Will find it of grat ralue, as it will contain all the news appertaining to Mining, the prices and sales of sfinmg Stocks, now inventions of Machinery adhited to that purpose, and of everythusg gencrally that may be of servic to the 3liner.

## The Inventor !

Will find it an excellent melium for the purpose of bringing his in rention into nntice, of ascertaining the progress of invention in this and other countries, and also of receiving myy information that may be necessury in obtaining his patent, the proprjetor having had great experienco as a
Patent Agent, together with facilities at Washington that cnable him to ol ain Patents with dispatch.

The Mechanic and Manufacturer !
Will bo greatly benefitted by its perual, as each number will contan ser eral original engravings of new machines aud inventions, tagether with recojving the best scientific journala from all guarters, from which we slall cou
readers.

To Chemists, Archilects, Milhwrig7ts and Farmers! This journal will be invaluable. All new discoveries in Chemistry will be given, and $a$ large amount of information of great service to Architects ands
Millwrights will be found in our columns. The Farmers and Planters will not be neglected, erigravings will be given of agricultural implements, and the farming interest generally will be amply discussed.

## Tcrms.

To mall subscribers:-Four Dollars per annum,
Club Rates.
FIve Copies for Six Months, $\$ 8$.
Tcu Copies for Six Months, $\$ 16$.
Ton Copies for Twelve Months, $\$ 30$
Fifteen Copies for Twelve Months, \$a4.
Twenty Copies for Twolvo Montha, $\$ 56$.
For all clubs of Twenty and over, the yearly subscription is only $\$ 2$ ع $\theta$ Names can be sent in at different times nnd from different Post-offices Specimen coples will be sent gratis to any part of the country

## EWER \& SDIETH, Publishers,

Room 24, (formerly) U. S Court Building, Corner of Washingtrn and Bat

# 新tining and Sricntifir 和rss. 

W. B. EWER,

## MONDAY ETENING

FEBRUARY 2, 1863
The MINING AND SCIEATIFIC lRFES is published at the Fxclange Buthug, Roum 7 , cornir of Bittery and Washugton strects san Fran-
C. W. M. SMITH and W. B. EWER, Proprietors.

Engratings, Electrotypes, etc.

 Plais or Colured Printing

JOB WORK-xacuted with dispateh at the cheapest rates. Patrovs will remembl that when wi excente ellyravilys we will insert



## To Printers.

An Interest in ouc of the moat dounclung and best pasing Nicw papri Offices in the mourtans is offered fur sale nt casy terms. A rare op

 fill muntaia towns in the state. Fur further iuformation coquire at this ontice.

LOOKING ATTER THE MINING INTEREST.
The Pacific Railroad Act grants to the Compauy constructing the roat, all the timber upon certain lands lying rontiguous to the rante «hich may be selected, and which grant is so worded. that it may be construed so as to effectnally prevent miniug upon said lands, by proh bitivg the cutting of timber, \&ce. In consequence of this provision in the Railroad Bill, Mr. Atkinson of Yuba, a few days since introdnced the folloring Resulution into the Lower House of the Legislature:-

Rcsolved. By the Assembly, the Senate concurring, that our Senators in congress be instructed and our Representatives requested to urge upon Congress the enactment of such an supplemental lam as will guard the mining interests of this State against any such injurious construction of said grant
The Resolution was reterred to the Cummittee on Fedcral Relations, which has reported it lack with a farorable recommendation for ita passage. The Resolution came up for discussiun on Tuesday. The mining delegations rere generally farorable to its passage. The tenor of their argunent was, that while nothing should le done by this State to discourage or delas the cunstruction of the road, the utmost care sliould at the same time he taken to protect the mining interest, from whose decay the state and railroal would both suffer. If Congress did not meau, in grantiug to the Central Pacific Company the timber for every ten miles onalternate sections of land along the road, that it should be enjored to the exclusion of miners, would it not be well to say so in a Supplemental Act?

It is evideut from the wording of the Bill that unless the miners are explicitls secured in the righit to use what timber they may need, loy such a supplementary Act, the time maty come, when they would be enjuised, and the mines which may be found within the territory falling to the Railroad C'ompany be effectually placed mithin their absolute control. It is not suficicut that the Company should come furward at this time and explicity withdraw all intention to interfere with the rights of the miners. If the Compans is sincere in such denial, it can hare no oljections to having the matter clearly defised hy Legislative enactment.
P. S. Since the above was in type the Resolution has come up in its turn, as the Special Older for the day and been lost by a rote of 32 to $3 \pm$.

The Ocean Steamers.-M. O. Roberts adrertises the following vessels as belonging to his opposition line of steamers from New Fork to San Francizco: Tllin:ois, 3,000 tons; Empire City, 2,000 tous; Moses Taylor, 1,500 tons: Ameriea, 2,000 tons ; and the nows stenmship Bonaparte, 3,000 tons. The Moses Taylor sails on the 11th instant.
The P. M. S. Lane.-The Pacific Mail Steamship Company advertise the Constitution to sail on the 11 th instant, and the St. Lonis on the 21st. 'The Sonora sailed on Saturday. All the above, on both lines, are well built and sub.stanqial sea going steamers.

## HUMEBLDT NOTT A FAILURE.

An unfavorable impression with regard to the value of the Ifumboldt Mines bas been created in this city, within a few days past, $1, y$ an unconsidered item which appeared in a late number of the Territorial Einlerprise. The item in question was to the effect that two mills had recently been started in that district-had crushed rock from several of the principal ledges, with results of the most meagre description. It was stated that ten tons of ore from one of these ledges, supposed to be the richest in the district, yielded nothing more precious than lead or autimony. The substance of the item under its proper credit, uras trausferred to the columos of our last issue. Since that time we have conversud with parties from Humboldt, from whom we learn that the item in question, was entirely without foundation. The Enterprive has also exhonomated itself io the premises ly maning its athurity.

No such amount of rock, as that named has been crushed from any one lead in Humblalt, up to latest ahrices. excent from the "National," which is a gold lead and contains no appreciable quantity of cither antimony or lead, or, we beliere of silser-gold being its only return:
If the Ifumboldt Mines are to result in a failure or even anything approaching to a scrious disappointmeat, the fact has yet to be proved. It is still confumbly helieved by those lest informed, that this districe, when it com ss to be fairly developed, will prove to be quite as rich as Virgiaia City: or any other place.

Since the abore was put in type we have received the Enterprise of Jan. 27th, in which the "local" of that paper re-iterates his previous aseertion with regard to the crushing with poor results, of a quantity of ore at one of the Humbohlt mills, and s.ys
mits the crushing, but accounts the Sacramento Chion ad mits the crushing, but accounts for the measer return on the supposition that the reck must have beco of a quality infe-
rior to the meneral averare. rior to the general average.

A currephodent of the
shing, amd explains the Bucletin also acknowledges the crushing, ambexplains the ansatisfactury result ly saying: "Dudge of cu., of the
Sheba Nill, hare hicen expemimenting urou the best mamer of saving the metal. and it will be clionn early in the spring that the mines of the Inmbolut and Iieese Rivens are as rich as any get discover d." Another correspondent of the same paper, of the same date, likewise admits the working
of the ruck. His explanation of the canses of the faiture of the ruck. His exphanation of the camses of the fature
howerer-for a failure is not deuied-differs somewhat from the avowals of others. He sajs

"Wre leare thereader to reconcile these conflicting authori ties, and weigh the result against our simple statem nt."
Being satisfied in our own mind that "somebody had blunlered," we called upou Mr. Dodge, of the firm of "Dodge \& Co.", proprietors of the Sheba Mill, whe is now in this city, but who was in Humboldt at the time the mill was sta ted. He confirms what we have learned from various other sources, that only the small quautsty of rock. already alluded to, has yet been crushed from the Sheba rein.
In relation to the extract above quated from the Bulle in, where the information purports to bave been derived from Mr. Dodge, that gentleman explains as fullows: The information was given to the Bulletin conespondent in a private conversation, and the "process's" alluded to were simply land proc sses, conducted in this cily, and to the exteut of only three pounds of ore at a trial. The oljject of these experiments was simply to arrive at some correct and reliable method of treatiog the ore on a working scale at the mill. These results hare, thus far, resulted in fully sustaining the preconceired ideas with regard to the ralue of the mine. If the "local" of the Enterprise will read the above extracts from the Bul'etin attentively, he will, see that he was not justified in inferring that those "processes" were tried at the mill. The witers, evidently did not intend to convey any such idea. The last paragroph of the latter quotation would soen to settle that matter for one of them at least.
With regard to the correspondents of the Ution, we
would simply say that the proprietors of the milh and of the lead, and their workmen all unite in the assertion that not a full ton of rock has yet been crnshed at the mill, and not a pound of what has been crusked, has been antalgamated by any other than a haud process.

## Mining Operations about Virginia City.

Mining operations in and about Virginia City never presented a more farorable aspect than at the present time. In the entire range of nearly three miles from Cedar IIill to Gold Hill, along the line of the Comstock Lead, nearly all the compames have reacheel their leads, and in a short tine many companies about which lit le is now heard, will be talking out rich rock. At Gold Hill, the damages of the lato slide have been fully repaired and the claims put in good order for working. The Mexican Mine is said to lave struck ore in their deepest shaft which, when assorted, is worth from $\$ 7,000$ to $\$ 8,000$ per ton. It is being prepared for shipment to lingland. 'The Ophir, which has recently been inundated with water, is recovering from its bath, none the worse for the drenching. It is more than probalile that the reservoir from whech this water has been drawn will prove to be a rich vein of ore The Gould \& Curry is now fairly in successful operation, though nut yet to its fullest extent. The dividend declared on the 26th ult. - $\$ 100$ to the foot-is snfficjent evidence of its richuess. When the great tumsel which this company is driving up to strike the land at a depth of 700 feet shall meet the vein, great developments may bo expected. The Caledonia tumel, three fourths of a mile below Gold Hill, is being pushed forward with the utmost vigor. This tumel it is expected will intersect ten distinct leads. It is now in nearly 2000 feet, and has passed through one leat, from which a stream of some 60 or 75 inches of water fras fluwing at last accounts.
The Ophir Company, according to the Tervitorial Eutermrise, comnenced gaining on the water in their mine on the 2?nd inst.-not a moment too soon. The lighest rise of the water was 80 feet, and reached within five feet of the the ga lery. Had it entered that gallery, much damage would have buen done. As it was, the work in the mine was nut seriously interfered with as it was mostly done in and above the 5 th gallery. The Mexican Company did not -uffer to any great extent. The Central and Califurnia were a little troubled by the seepage. The mines ahove the Ophir of course are greatly benefited by the disaster-1he Li Crosse and Burning Moscow were particnlarly bencfited. It will p:obably be some days yet beture the water in the lower portion of the Ophir mine will be entirely drawn off. In the mean time opperations in the wine will not bo seriously interfered with.
In the Sullisan district several good leads hare been de-- eloped. In the I'ámyra District good prospects are reported. In the Spring Valley District, the mills are getting out $\$ 20$ and $\$ 30$ per ton, which though not large is nevertheloss sufficient to encourage further operations. The Rock Point Nill has recently started with 40 large stamps, and wo large breaki gla teries, crushing 60 tons per day.
The Territorial Enterprise says says that a large number of mining companies are about to incorporate under the Torritorial laws-among them, the Beach \& Paxton, the Birdsall, the Oriental, the Pride of Wrachoe, the Zouave, and the York. That paper thiuks that within six months a a majority of all the companies of positive value, will incorporate there. It further states that an attempt will be made by a number of leading companies to have that portion of the Tervitorial Incorpation Act declared unconstitutional which requires the removal of the offices of California incorporatioss to that T'erritory.
The Copper Shipments. - Mr. Shields lias shipped 54 tons of o:e by the ship Perurian, for the Swansea market. This ure is from the mine of the Newton Company, Amador County, and is of an excellent quality. It is expected, that when the roads open in the Spring, large shipments will be made from that District.

Tre order of Court for a survey of the El Dorado works granted to the Gould \& Curry, embraces also a survey of the Rogers and Vanderbilt claims. These survejs, the Enlerprise thinks, point to a general settlement of boundaries

GENERAL MINUNG STOCK REPOKT.
1tramitur saldes
At the Sun Fixandwe Mhatag stock Board,



The Jownhine changed hands at the stock Euard, ou Monday, Wednes. $d z y$ and Thursely at $\$ 15$.
C: sn-chat geal hatide on sumeday at Jo dullars.
Wialuw siniug:-sult ua Moncaly ut $\$ 20$.

## Mexican Mines.

3fina Pricta changeal liande on Morday and Thurstay at $\$ 125$ and on Fri Liny ut 1 10
I ius I'atre wha quoted on Monday, Thurisy aud Friday nt 35.

## San Francisco, February 204, 1863.

## STOCR RJMARKA.

Transactions in shares, the pust weés, bave sot been so active es dintiog the weak jrmatus, Although the weak eiceet uith a coutrary ophator ambly many, it chaphbsu of the "transactions" of the two weeks, ab reFontud in these ch hamas will bushin our asserthet lrices, however, bave Eftetally whed bether, fild the de cuthl otmerse of the narket may be get acticus. Tbe rifolts form ibe n, hecs ale genematly favorable. Dlany val-


 af cled favouratly the firtheg of buters in this city, who, duang the We.k have datly thenged Montenmery strect, ill ubusuatly large numbers,
 Erimethy, bat afturthig athe, mbustabuble evidence that an iucreasing inatint of caflal isheld in store for meverment in this maportaut branch a) businers.

Ophir has rallied semenlat from last week's depression and now etands firm whth more of a busitu-s ibate spechative attitude. The late diaster i, is fully c.almilnted, with mich less dumage to the tame than was at Grox antrapated. The wok of er mpleter datinig off the water will soon
 co duys. The dindem for Junary will he ith be emoll, probahly not over \$ab fer font ; but holders are sangu
for a latee divineud fir Fobsuary.
fieuld di Curry 1 aid a disidend of $\$ 100$ por fuot on the 30 th ult, and car
 aikited about $\$ 150$ pier fout, with but little Steck offering.
bat been offered for Fetro unry tivilends.
(Joilor has ngain - in ul witil tendenty haville advanced thirty-five dolJ.urs pier fort from Thumblay to Siturdity. It is now held firm at $\$ 130$. Earther advances are exper ted.
Potost, which hid stmatily adrancen tusiso, declined the past weels to a batger atmount than ( hatla: hats adratuern. It solit the baril on Monday



## batter.

Sorth rotosi has imy roved eight collars which is tiven as iudicative of
:mproved prompets is its suit with the Hate and Norcross.
Sierra Nevada stocks lavo been largely deall in the pase week at about

## the usual rates.

## FEMERALDA STOCKS

Emeralda Stocks have el mmanded considerable aftention during the Wee. $k$ Accounts from that district are generally favorable.
Tho whe West.-An unusual amount of this Stock has been placed in the market during the weok, which at first caused a deetine. It subsequently however, rallied a little, and Ginally closed with a frm market at slightly reduced rates. About soo fect have clanged hands during the week.
Ctah. Considerable excitement in this Stieli was caused by tho rep of a telegraphic order from the mine to ageuts hero to buy largely, which they did, and as a consequeuce stock rapidly atrauced from $\$ 65$ to 100 Holders are now askiug $\$ 110$ and upwards. 327 feet have changod hands during the weck ot prices frum $82 \frac{1}{2}$ to 100 dollar's.
Antelope, Esmeralda, Del Norte and Silver ILill have been largely deult in durind the week. geperally et advanced rates,

## TRANSMT:UNS IN SHAREN



 3.260, let of Augastat $1=$ pro exut interest.
(Lullar-20 at sunilá ; 40 as $40 \mathrm{a}, 20$ at $410 ; 28$ at $\$ 15$; 12 at $* 20$, 10 at 425 20 at 440 .
Savaki-5 at $\$ 1,200$ : 7 at $1,175$.
 Her: 00 d.ay m .




H.sle \& Norcrus- 10 at $\$ 505 ;$ 3 at $\$ 570$ !e.

Pathy-20 at §-*5, 10 at 205.

Numtm-10 at §25; 25 at $27!2: 30 \mathrm{at}: 6 ; 24$ at 50 , $: 0$ at $\because 8$ BaFnzldeー-0 at है15.

Sacrammato-10 nt $\$ 05 ; 20$ at $21^{2}, 25$ nt 40 .
Uhim, lhess [fotrict-2id 2\%, 2u0 at 2 ? 60 nt 3.

ESMTRAIMA MSTHCT.
Wide West-100 mares at $\$ 200 ; 100$ it $3.5 ; 100$ at $300 ; 200$ at $240, \$ 00$ at $2: 20$ to $3: 5$. Stuborn \& Co. qu te at 400 .
Aut -lolu-20 at $\ddagger=10 ; 20$ at $205 ; 15$ at 200 ; 10 at 1971\%; 7 at 205 : 10 at 200 8 at 2071.
Renl del Montr-50 ht 26 ; 25 at 25 ; 25 at $27 \%$ \% 50 at $25 ; 38$ at 28 .

Garibahli-20 at \$a5, 5 at 2 15; 15 at 24 .
Fsmeralar-10 a 8857 ), 10 at $60 ; 6$ at $57 \% ; 5$ at 61 .
Utilu-327at $\$ 70$ tu 05.
Jina-: 0 at $\$ 5$.

## * Quotations made at given rates par fool.

COIPril: stocks
Thn Napoleon thas bern considerably deste in the past week. The follow-
 (a) $35 ; 20$ (H30.

## Stocks in Vixginla City.

Corrected by Wherosas \& Mrenha, for the Virginia City Cisoos. The following slocks, are in the raarlict in Virginia City, and Ledd at the prices annexed:


## ESMERALDA STOCK REPORT.

(The report of the Esmerulta Mining Foard for the 16th ult not haviug beeu received we cuatiaue our hast quotations.)
t the meeting of the Fismeralda Stock Board, held January 9th. 1863, the followiug busiuces was transucted in stucks, 25 ronorted in tice Esmertuda Star

Pride of Antelope-s5 slares oftered at $\$ 5$. Uuion Tunnel. - 10 =hurce offercuat $\$ 15$. Alturas-5 =hares offered at : 5 .
Bawhoo,-20 [eut offered at i5-bsis 50 .
Strawberry, - 25 shares offered at 16 -bid 8.
Ex. Juhnson-100 feet offerod at 8.
Frean- 25 fect uffered at 8.
Del Norte- 12 shares olferclat 36 .

Esmeralda Stocks offered at San Francisco valuation
 transactions or the weer.
240 fret or Ramboo sold at $\$ 40$ per foot.
65 shares Strawberry sold at $\$ 10$ per share.
100 feet Golden Age nt $\$ 5$ per foot.
25 shares Peru, at \$5 caclu.
20 fect Budie Bluff Consolidation, at \$12.
Application for Examiuntion and Classlfiention was received frons the fol lowing Coraranjes:-Garib, Luti, Ural and Julia Elizabeih
J. B. BLANCHARD, Sccretary.

## WAEMUE ETOCK REMARES,



## Monday, Jisumary 10.

E.thell frot of Hazul Green sold tu diay for $\$ 5 ; 5$ feet Onistas) at 84 ;
 of Keystone Raty lae, in this lnatriet. We know nothing of the vilue, everpt



 A new steike of valuablu ore iu the Yeflow dacket is ruported tu-d.y.

Tusslay January 20.
Bat two no theo sales wers reported to-day, and nothiug of impartarice Wha boted in the wiyy of discuvernes. The reported steine of pulsable cro in the Fillow Jackivt, mouthoued yesterday, is corrcol.
Aumpler tur a wirney of the El Dhadu mine has been granted by Jutge
 by a colmpary claimigg in froust of their be'ge. Somethiag sliould be doae
 Wheh the ir tuining phet ssi hs ure iuvolved.
 feet Orieutal at $\$ 350 ; 15$ feel Hacol Green at $\$ 450$. Othor lorures rem:in, whthout anexception, at the quotations of yesterday.

Wudneslay, January 21st.
Very litile doue in Stocks In-day-people genorally ton mueh ousrowned in sletghng. A sute of 10 feet of In Crosse reported at Getres which the "Enterpise" esterms doubtrul, but quotes at $\$ 17$ to 20. Tent teet of Sacramutn iE quated at 47, an! 15 fret of Gollor at $5 \% / 2$. Theso trausiers embrace the entire snles of the day.

Thursday Eventig, Jia. 22nd.
Reports from San Franesco aro inspifing. Tho publlihed records of traasactions below do nut ruflect the inteusity of the general disforition to wvest in the mining stocks of Novad:. Everything aughrs favoratiy for the coming Stpring. Inquiry for Norton, Rogers, Allen, North Potosi, Sacrameutn, and Earage, at sua Francisco quotations reaches us from the Bay, but stocks seem to be holl somewhat more armly than in Catiforma. Few sales are reported to-day. El Doratlo is offered at siv0@ $\$ 50$; Birdsal at 820 ; Prile of Washneat $\$ 15$; Governor Nye at $\$ 5$; Wellington at \$70 @ 812 ; Oriental at $\$ 350$ : Hazel Green at $\$ 0$; Dunn at $\$ 4$ e 85 ; Sinalon at if $^{2} 50$ (il) $\$ 8$; Fairvicw at $\$ 20$; Cedill Kill Tunnol at $\$ 4$; U. S. Mikiag Compuny at $\$ 600$ per quarter interest; Zounve, $\$ 6$. These are the lowish rates at which most of the stocks meatioued can be obtained, aud amouts to market are limited.

Friday, January 231.
There has been some activity in the stock Market to day. Inquiry was made fir sicramento at $\$ 45$ to 50 -for Beach \& Paxton at 30 -for Birdaill at 17 to 19-North Potusi at 10 to 1\% and for Savage, Rogers and I'olosi at san Frouciso quotations. Hhters, hoswever, are tis-inctind to part with much atteution: hd a uumber of cluims which have slumbered for two years are wow coming iato fayor.

## Snturday, Japuary 2eth.

The week cluses with much firmness in all second rate Stocks. The fransactuns of the weck, however, do sot foot up largely, although the rates obtuned are generally satislictory to buyers.
Siemamenta shares cannot be bouglit at this time in Virginia City for less thau $\$ 75$ per fout. Sim Eraucisco quotations to the contrary, notwithstaudIng.
The Argentine District which has beea pretty much abandoned for the past 18 months is aguin fuding lavorable mention. A new claim called the Vulcan, the croppiags of which assay well, seems to be the fiverite. Sume considerable prospecting is being done and valuable ore my be foumb A few it the ctaims in langera aro held at large aguros. The summil still matinnes to attract sume altention. The Orizaba bas been eold lately for $\$ 150$ ter lout Sales to-day Lutre been light.

Monday Evening, Juhuary $=0$.
Wild reports from Reese liver have been in circulation towlay. Ore trom that region, asstying $\$ 20,000$ to the ton is exhibited, and maty tho preparing for an carly visit to the new mines. We trust the country may prove as rich in gold and silfer as the wildest dream of the prospecting enthiusiatl. but wo have little fuith j 1 thesc repoted assays. A watd to the wise jo sufficient.
The sales th-day have beenlimited. Transters of Zounvo were made at §0, of Traterlouse at \$3 20 , of Lirdsall al $\$ 1850$, of Alleu ut $\$ 45$, of Sacrimento ( 5 fuel) at $\$ 60$.
We quote U. S. Mming Co, at $\$ 2400$ per interest; Greanila Tunnel Co.
 Utah, 810 845 ; Sacrauthtn 860 e 865 ; Oriental, 3360 : Prinie of Wash 0e, $\$ 15$ ce $\$ 20$; Sauta Rita, E35 ; Cedar Gill Tunnel, $\$ 50$; Dumn, $\$ 4$; Sinaai, s7a $\$ 8$; Uuma, Gold Hill, $\$ 8$ © $\$ 12$.

## MEXICAN MINES

Iutelligence from the Mexicau Minos in Souora is highly favorable.
The Buna Plieta is fust moviug its machinery (which is of a very superior class) to the mine. It will probably be in operation inside of three moutbs. This in pronnunced one of the best mines in Mexico.
The Musidiora, upou tho same vein, has its tonnel in 80 feot, with about 50 feet more to run before reaching the rein. They expect to stike the roin is a little ovor two months.
The Brouces Mine is receiving ndational machinery, which they expect to bave ruuning in about fuar mouths.
The machinery for the Dios Padre, it Alamos, is most probably now upon the ground.
Additional machinery has also gone to the Guasapuxe Mine on the edge of Chihuahua. Capt. Fredorick Grifliu of this city bas recenily tiken a largo iuterest in this Mine, it now being eutirely owned by Americans-Griflu Hurd \& $C 0$.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in Eugland add some other foreiga countries. Four patents-American, English, French and Belgian-will secure an inventor exclusive monoply to his discovery among one handred millions of the most intelligeat people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at bome. The majority of all patents taken out by Americans in foreigo conntries are obtained through the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Govern ment, we obtain patents in Great Britain, France, Belgiam. Prussia, Austria, Spain, etu., with promptuess and dispatch.

Models are not required in any Earopean country, but the ntmost care and experience is necessary in the prepuration of the specifications and drawiogse
When parties intend to tak out foreign patents, engrapings should not be published until the foreign applications hare been made.

Cadtion.- It has become a somewhat common practice for agents located in England to send out circalars soliciting the patronage of American inventors. We cantion the latter against heeding such applications as they may otherwise fall into the hands of irresponsible parties, and thas be defranded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent at

While
While it is triue of Most European countries that the system of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex. amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whetber in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.

## Our Mint, its Rules, Charges and Operations.

In the columns of a contemporary we observe some ex ceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending April, 185\%, while the actual loss was $\$ 266,31286$, exceeding the limit some sisty thousand dollars. During the four years of Mr. Hempstead's Superintendency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twentytryo per cent., against two per cent., wasted by our branch mint. The total expenditures for three years under Messrs, Birdsall \& Lott, amounted to the large sum of \$1.019,275 39. Under Mr. Hempstead, the total expenditares for four jears were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last year of Mr. Hemstead was upward of $\$ 100,000$ in favor of the latter. On retiring from the Superintendency, Mr. Hemstead left an nuexpended balance of appropriation due the mint of up
wards of $\$ 86,000$. This certainly is a capital showing for wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin
tendency. Under Mr. Stevens, the present Superintendent we have no doubt everything wil work in an equally satis We hare no doub.
factory manner.

For parting silver from gold when gold below $300-1000$ ths. fine.
. 3 cts per oz from $300-1000$ ths to $750-1000$ ths fin rets
14 cts
$750-1000$ ths to $950-1000$ ths ". .14ets
Deposits Siliter Bullion-Purchases.
$\$ 1.21$ per standard ounce $\frac{1}{2}$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) propor tion of goid 1 to 300 , 3cts. per oz. gross weight

## 301 " $500,7 \mathrm{cts}$,

## Deposits for Fine Bars

$\$ 16-1-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross
alue of siluer for making bars ; also when gold is contained 16 value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gros

## Bars Sold From Refinery.

$\$ 1$ 2lets. per standard oz. $1 / 2 \mathrm{per}$ et. gross value to be ad
ped for making bars.
Deposited for Dollars.
\$I 16-4-11 ths. per standard oz. $1 / 2$ per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
$\$ 116-1$-11ths. cents per standard oz. $1 / 2$ per ct. gross
ralue of deposit for making bars.

CORNS AND BUNIONS REMOVED.
DR. BYRON C. KENNEDY, practical CHIROPODIST, late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove all excresences, such as Corns, Bunions Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet, without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic U1 cers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A. M., and 2 to 6 P. M. Having devoted six years of study to this important, hat too nuch neglected, branch of human knowledge, and having studied anatomy under the most skiiful and scientific Professors cof Philadelphia, and having made this branch of surgical science my specia'ity for nine years, enables me to operate skil
fully and successfully. In England, France and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lotty position in the profession.

Voizin is an illustrious example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kenne dy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa., complimented him with testimonials.
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks for itself, was written by Dr. W. L. Stevens of the University College of Philadelphia

THE EYES! THE EYES!! THE EYES!!!
DR. E. H. PARDEE,
Oculist and Aurist to the San Francisco Deaf, Dumb and Blind Asylum.
After a protracted blindness of more than five years, Dr. PARDFE has made bimself thoroughly and scientifically acquainted with all diseases of the Eye, aud is now practicStates; and as proof of this he substantiates by many cases now in California that have been cured by hint, after having exhausted the skill of the eminent physicians and oculists of ew York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 years, Dr. Pardee asserts, and is prepared to prove, that there bas been more blindness from bad and improper treatment than from disease itself - how can it be otherwise when We take into consideration the effects of the old hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death, and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on in-
quiring what had been formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone;" ' I was bled and blistered, then cupped two or three times a, week-had a blue pill prescribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tightly bandaged-to avoid the open air and exercise," with fifty other inconsistencies, the aggregate of which is sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing bat
bura them daily, not investigating the circumstances of each bura them daily, not investicating the circumstances of each lowing theories the most erroneons, and destructive to the eje. How much more rational and consistent to consalt an experienced Oculist, who thoroughly understands every disPARDEE has from sixty to ove hundred patiects under his daily supervision, and, with bat very few cases, they have all all to no benefit. Those who are donbtiul are permitted to call at Dr. Pardee's office and confer with the many patients Who convene there between the hours of 9 and 12 in the forenoon. The Dr. has a large and only assortment of Arti-
ficial Eyes on this coast, inserted, having all the movements of the real eye, and that they look so life-like that no one can tell them, when properly inserted, from the real eye. These
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens by absorp-
tion or extraction;-"Plerygium," or fleshy membranes growing over the eyes. Artificial Pupils, \&e.
OFFICE :-Clay street, above the Plaza-opposite Plaza

## Dr. Van Zandt, <br> Consulting Physician and Surgeon OFFICE

Corner of Washington and Sansome Streets.
The Great Success of this Centary, as an Aid to Practical Medicine.

The Mystelious Problem of Material Nalure, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases.

HAT THIS PRINCIPLE, successfully applied to diseased states
of the system, is to prove the grent sought-for necessity, long wantiog by physiciaus. to aid their mednciues in overcoming orgazic and functional ality koowr, as nerrous influeace aud necessarily must bave much to do in briating diseased action.

## Too Mueh Cannot Be Said

In its pralse; for it is highly probable that in health there is an exact equiibrium of the ELLCCRRE' pruciple; and should this secret aud hidden equi. poise of health be bruken or lowered-chould the body be negatively clec-
trified when it should be positively chargen-is uot the curreut broken, and is there not a war of forces going on in our system? This needs correcting
and nit order that the tissines of whe body should be eusceptible to remedn. gents we must frst restore and

Awaken the Magnetic Lite Within Us,
The spinal and sy inpathetic nerve nystems. Boleving as I do most firmily In this great magnetic or electrical iutensity of the carth, with its influebeo press, through which to awaken attention to the subject, that good may

## No Compromise with Disease.

Give the body strength, and bature will relievo herself. Purify the life loud, render the stomach, hwer, heurt, kuluey abd all the patural functhe nervous, the dispirited, the melanchulic, the dysjectic and the invalia



## LOWER CALIFORNLA Colonization and Mining Company.

 THE AGENTS SENT TO MEXICO BY125,000 Acres of RICU AGRICULTURAL LAND,

## and valuubla sllver Mine,



## SPLENDID EATERPRISE.


NO TME shocld be l.ost by COLONISTS.
Farmers Miners and Rechunics, With famblien are particularly Invited by the nuthori ties of the Territary: The land pelectel, in point of fertlity of auil, is not excelfed on the Contiuent. The elf. nince is unsurpatsed in the world. The rieinest Silver
Hines hanum to exlst in the T-rritory are in the trumedi3ines hanwi to exlat in the T-rritory are in the tmmedi
ate vienity and bordering oo the agriealtural lands of tho Colon y.
N. B. Bear to mind that a eharo cestr, at present, onis $\$ 200$, which entitles the bolder to free transporta tion for self, fanuly, and articles of personal use and an eqnal share the the land, the Company sitver stine, etc.
tho whote enterprise, being for tho mutual benefit of the whole enter
members oully.
Full information can be bal, and Mineral and Cotion Specimens seen, by applyting at the oflice of the CompaDy, Nurlth-west cornor ot Clay and Frout Street.

## BOARD OF TRUETEES.

A. G. RANDALL, President.
CAIT. JDHN H. BELS CAIT. JOHN H. BELL, Y. Pros
O. F. GEARICKE Ser retary.



RASCHE \& SONS, 231 Montgomery ste, bet. Bush \& Sutter, san francisco.
mholfinale and retail dealers in
Pianos, Sheet Music ITALIAN STREINGS,
Sole agents for the celebrated manufacturers,

## A. A. GALE \& CO., New Yorlc; <br> C. MEYER, Plıladelphia.

 T. GILBEaT, Boston;Whose Pianos they bave always on hand, for sale of rent

## Panos FOR RENT.

 A literal discount made to the Trade and to Profesiory or
aul4
Susic,

## washox

Stock Exchange, N. E. cor. Montgomery is Merchant ats. SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and sel! Whaboo, Eemeralda and othor Miníng

## DEVOE \& COS.'

STEAM ENGINE
MACHINE WORKS,
A KIL KINDS OF MACHNERY, SUCH AS STEAM EN-
GINES, SAW MILLIITRORA, FInur Mille, Quartz Mille etc., etc., made to order and repaircd.
B ACSSMITHING, ALGRNO, AND SCREW-BOLT Catting
GGKCUTTURAL MACHIVERY
Mardcuitural Machiver y made and repaired. Machines and Threshing Teeth made to order,
on the roost reasonable terms
 hand, and for silecheap. Serev-Cutting and Turbing
Lathes for aalo. - DEVOE \& Co,

## Attention! Attention!

ATACTOFE LAND, FMBRACNG: AN ARE, OF 400 r!
thit rat in Resl Fis'ule, and youls will find it mure profita.

 Fur further particulurs apply to
harvey s. brown,
I.ithograplic Maps can be seot and had at the abon yamed olltee.

## A. ROMAN \& Co.,

Book Establishment, 417 and 419 Montgomery street, SAN FRANCISCO.
Ordera rapectrully folicitem and promptly attended to.
A Treatise on Metallurgy, Coniprisiog Mining and Gen Treatise on Metallurgy, Conprisiog Mining and Gen
eral nid Particular
Blotallurgical
Operations,
eral and Py Freticuliar overanargical operations, Etc
A Manuin of Metaritracky, or A Practical Treatise on the
Clienistry of Metals.
Corenistryy of Metais.
oradn for the Usse of the Mine Agont and Smelter.
By Janes Phillipe or Fact and Mem.
By Janes Phillips and Johne Dartongtan.
uat of Metallurgy, more particulurly
nual of Netallurgy, more particularly of the precious
metass but includ ing such others as are employed in deathl iractice.
Piggat on the Che mistry and slining of Cupper.
Practical slineral Assay ing nad Miuinge Overman practical Blineral Assaying and Mining. Overman.
Gold Mining and Assiaying: by Phing.
 Assayers ' 'nide; or Practical dircetious to Assnyers, 3i-
ners and smelters. ners and imelters,
ractical Assay ing, by Mielell.
Practical Assay ing, by Miehell.
ifrer Ores and silver Mines, by Pro. Blake.


Together with manyother wo
and similar lines

- Books imported to order on short notice. 飞es
A. ROMAN \& Co.
$417 \& 419$ Montromery street

 his wirc imprutently approached with $\Omega$ lighted candle
nad the uil exploded. Mrs. Brewster's arms wero bodly
burned, as were also the hukband's hands. Huwerer, burned, as were also the hurband's hands. wrowerer
ho succedded in materig the Hames, and preventing
worse cousequences.-[Eveuling Bulletin, Aug. 4 . worse cousequences.-[Eveufing Bulletin, Aug. 4.


## THEN THIS

Comet Illumitating Oil !
Manufactured expressly for Stanford Bro this popular
Brand of Kerosene
Is warranted free from Camphene, Petroleum, or any
BEST FAMILY OIL IN TEE MARKET. STANFORD BROTHERS,

3ur Beadtuturg fiir Grfintuer.
Erfinber, meldje nidjt mit ber englijden Sprade belannt fint, fonnen ifre 刃it
thungencil in ber beutjoen Spradje madjent Efizzetwon Erfinbungett mit furzen, beutlid geiduricbenen Befdureibungeat beliebe man zu aboreffichen an.

## Gird's Budding Knife.

IHE ATTENTION OF FARMERS, HORTICULTURISTS
Inplenents, arese reierred manufacturers of Horticultural descrintion, and engravivg see MiNNG ADD Sclextrric
PRESS No 24 ,
Prate, Terrritory aud workshop rights for sale at rea-

sep1-3m (Agent for Patentee.),

The Occidental Hotel
Open for the Reception of Guests.

FREDERICK EESMODEL, Cutler \& Surgical Instrument Maker, 817 KEARNY STREET,
Betwcen Jackeon and Wuehingtou strects, sAS Fraxicisco,
$T$ HIS Hotere has Alt. TIIE MOPERN IMPROVE$\mathrm{R}^{\text {ECRIVED a diplomn at thin Fuir of the } 3 \text { sechaures' In- }}$



> News stand

CABINET FOR MINERALS
A Branch Telegraph Office,
Connecting will all the lines throughoutho country Lewis lfland \& co-
San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC !! MUSIC !!!

## A. KOHLER,

importer of eyery description of Musical Instruments \& Musical Merchandise SHEET MUSIC \& MTSICAL BOOKS. GENUINE ROMAN STRINGS, \&e.,
Lighte's New Patent Insulated Iron Frame is putinto all of
Lights \& Bradbury's Oyerstrung Pianos. Wherever these instruments are kuown they RANK AS THE FIRST AND BEST Instone, delicacy of touch and durability. All the leading Musicians of the country luve testified to their superiarity. A. KOHLER, Agent for the Pacific Coast.

MELODEONS AND HARMONIUMS, fom tue celebrated manufactory of MASON \& HAMLYN, Warranted superior to all others.
102. Send for a catalogue and Price list
zohler, Agout.
To Mill Owners.

## 

 Miue. Thie Applicant whs engaged fir a aoot eight years
ns superintendent of Copper Miniug Works in Cornwal, as lins acted in the same capncity io Gold Mines in this
ann linte for the past seven years. He has had mich experience, in Corlwall, as an Assayor, a Machincest,
a Draughaman , Surveron aud an Assorter of Coprer
Oro Ho can Eive araple testimonies as to his capncity Apply at this Office.

## PHILADELPHIA BREWERY,

 Second St, corner of Folsom, San Francisco
## Holscher, \& Wieland Proprietors.






## tion ot ot custom.

## W. T. \& J, GARRATT Gity Brass and Bell Founders



 rat''s Patent Improved Journal Motal

## F. G. BEPLER

Practical Coppersmith
No. 118 (Old No. za) Bush street,
Between Sansome and Battery, Shx Frascisco.
Whilst thankfral for the former confadenee bestowod
uno
 live of business: eqpecially all kinds of apporatus used in
Breweries and Distilleries; also, all such as are used
where steam, spirits, or pumps of any kind be requircd.
Also, Kitchen utensils for Hotels, Restaurants and pri-
viser vate houses. Baking apparatus for Bakers and ConfecAll orders from the country promptly attended to.



 bucertans and canaot be $r$ lied on, and in severe cascs
are altogether useless. The following are some of the anduntager I chaim for thase Trusses a aove any and all compressed by taking a plaster cast. Secotul-Having desirable material, such as horn, ivary, etc. Third-Tho
Pad is so atiusted to the spring ind the body pill move or displace it. There are minny other advantages. Examine and julge for yoursolves.
FREDERICK KEjMOMLI ap3 4

## LABOR-SAVING <br> Rock Drilling Machine,

TO ENGINEERS, RARLROAD CONTRACTORS, TURNaud Agent for GARDNEB'S PATENTS, will contivue to

## HAND, HORSE, AND

STEAM-POWER MACEINES.
Tlie Hand Machines are expressly adapted for worling
in Tuinels, Galleries, ele, one nanu perforiniug tie lis-
 A FOUR HORSE IOWER MACEINE, operated by one man, drives a machine capable or drilnge it our to six
inch diametar holc in limestone, six teet per hour-the rapidity of the worlk being limited only by the durability of the steel dryll. Sical warking of reronce will be given as to the practical working of the machiue, and its entire buccess in
reduclog the cost of drilling holes to onetenth of the former expense, and ou a rock excavation of uny exteut, from Grity to seventy-fivo per cent. ou the catire work.
Responsible parties who lave rock excavations to make in auy part of the State, the subseriber will uudertake and guarantee to perform the work required, at a sav-
ing of at lenst twenty-five por cent. over nuy orber pro. igg of at lease twedy.five per cent. over any ouher pro
cese. Address orders $\delta$
Fremont street, bet. Market and Mission, Wan, Drancisco.

## LATEST IMPROVENENT

## in Ladies' Buckles.

 ments in Jewclry, that he has made mportint improvemeuts in BUCKLES, which surpass any und anl hereto
ore made. Their simplicity, commodiousucss, and ore mado. Their simplicity, commodiousness, and
benuty ronder them the must uscful as well as orDamen. tal trinkets.
Orders trom tho country respectfull soliciled. For
particulars call at or address,
FREDERIK REICHEL, 620 Merchant Etreet, San Francisco.

## REMOVAL,

## OFFICE OF THE PACIFIC METAL-

 Govid rock por day.
Gold rock per day.
Gold and isver.
versmithas' sweepyivgs reduced or purclissed.
COPRER OBESSHighteest market rates adraneed in


## WRIGHT'S PICKS.

$\mathrm{J}^{\text {OHN }}$ WRIGHT, of Sacramento, has establisoce mmdeseriition of 1 ICKS, of the best raterinil, at reduced




JOHN WRIGET, 511 Market stroet,
Opposito Battery, San Frakeisco.
The question of taxing mining claims by the General Government, after a long slumber, ser ms to be again revived. The agitation of this suhject I cannot but regard as extremely impolitic. In a vast majority of claims it is impossible to estimate their value above what they may afford to the laborer from day to day, and with most of the balance th re can be no accertained permanency or reliableness of value upon which an assessment could be made with confidence or with satisfaction. A tax upon these claims can never be laid that would be ju.t in its burdens or equitable in its results. When the sagacity and toil, the anxiety and patience, of the miner are rewarded with success, the results of that success, become the subject 0 taxation and the source of revenue.
P. M. S. CO.

PACIFIC MATL, STEAMSHIP COMPANY'S
 Staamship Company at Aspinwall.

## FOR PANAMA.

The following steamships will ve dispatched in the month of Fuluruary, 1803.

## February 1st, Steamer Sowora.

Ilth is Constifution.
z1st " ST. Louis.
Will leave Tulsom Strcot Wharf, with Passengors and Treasure, for I'anama

AT 9 OCLOCK, A. M., PUNCTUALIT,
Aul connect, via Panama Railroad, at Aspinwall, with teamships for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento and Leidesdorif sts.

## TO THE CLOCK TRADE,

$W^{\text {E HAYE RECETVID, EX RISCENT FLEET OF CLIP }}$
NEW HAVEN COMPANY'S, (FORMERLY JEROME)
CLOCKs,
Comprising all the Desirable Styles, Also a Large Lot of

## Fancy Time Pieces

of New and beavtiful patterns
We sball in futare bo in recerpt of sumcient quantities of the above gonds to supply our largely mereased trade. HAYNES \& LAWTON, Agents N. H. Clock Co. fn 26 tf $N o s$. 516 and $518 \%$ tabsome st. Sour. Francisco.

## SQUARZA'S PUNCH.

FTRST PREMIUM
at the sacramento agricultural state fatr; FOR 1862.
ALSO; FLRST PREMIUM At the San Franclisco Bay District Agricultural Fair, 1862 mhavehetory, wholrsale afd retail, No, 44 Leidsdorff street, Oprosite the What Cheer Houso, Sna Francisco.

## V. SQUARZA'S

Punch Factoxy.
 anit similar productiones, assunuuffactured by him. We may meution that Mr. Squarza is au fait in the chicmico-
di.tillivg seience, leuce the oelobrity of his articles. Ife dustillivg seience, heuce the celobrity of his articles. He . He
luas two establishments for the sale of Lis fanmous Puuch -one on Leidesdorff, the other on Montgonery streetwhich are constantly thronged with nur bon rivants. The following is a list of his liqnors, all of which we have tasted, and gind them the most delicious aud harm-
less beverages in this city, being pure and unadulteraless beveraget in this city, heing pure, and un


FULTON FOUNDRY \& IRON WORKS HINCKLET \& CO., MANUEACTURERS OF STEAM EN GNES,
Quarta, Flour and Saw Miills; Cast ron
Fronts foi Buildings, Mining Pumps, and all kinds of Machinery
Nos. 47 \& 49 First Street,
Eetween Market and Mission, Sad Francisoo.
ALL kinds of Iron and Brass Castings furnishod at shont notice. Every style of fivishiug Lo Iron when cast Repsiring to Machincry ueatly done Pateru Making in
its $\begin{aligned} & \text { carlous fu'ms. }\end{aligned}$.
D. B. Hinclule

Steamaship Isine! CONNECIING
CALIFORNIA AND NEW YORK, via nicaragua.
F50 Diles Shor turtman any other Route : The Fast and Farorite Double Engine Stcamsbip,
MOSES TAYLOR, E. HOWES

Will be dispatehed for
San Juan del Sur,
From Mission strett Wharf,
Puncturlly at 9 o'elock, $A$. M., ou
WEDÉESDAY, - - MARC'I 11. 18G3. Connectug at GREYTOTNN with the Splcurdd Ster mehip ILEINOIS .... 2500 Tons.

Reduced rates of Passage and quick trips aro secured by the re epreming of the Nicariqua Route.
These steamers are unsurpissed for speed. cleanliness and safets, aud every effor will be made to iosure the For further inform
No. 107 What NBERTs, Agent
DONAHUE'S
Union Iron and Brass Foundry,

The First Established in the State.
MANUFACTUREE STEAMEEGINES, Ouartz slampers, Amalginntors, mill mellinery, Buthers
 cear aud Machinery Patterns in the state, a lita
which will be forwarded to onyme desiming it. five o
west Which
cust.

PETER UONAHEE.

## LEWIS COFFEY AND RISDON,

STEAM BUILER AND SHEET TRON
The only exclusively Boiler Mating Estulliinmont on the Pacific Coant Owuel suad cond octod by Practivat Bniter Mikecrs. dil orders for Now Wark, thil repuitiag
of ord Work, exceuted as orderod, and warrauted as of Old Wor
to quality.
old Stand, corner Bush and Market Streets,


## GREATREDUCTION IN PRICES.

STANFORD BROTHERS, 121, 123 and 125 California Street Kerp the Largest Stock of all Kinds of Iamp Stock
And will Sell chcaper than any othex
Lamps, Cimmerys,
Wicke, Camphene,
Burning Flutid,
Alcohol, Coariotl
Turpentine, Kerosene Oil,
CONET ILLUMITATING OLL,
Sperm Oil, Lard Oil,
Machinery Otu,
Rape Saed Oita,
China Nut Oil,
Polar Oil,
Linseed On, Raw and Boiled,

## Seare's Orl,

Njat's Foot Om,
Tanngrs Oll, Etc.
Our customers in particular, and the eountry trade goncrally, are requested to ascertaiu our prices before pur ates than thy $y$ cin aitorit to.

## TO OWINERS OF WATER-FOWER

Beth's Hydraulic Fressure Wheel
THE SIMPLE, COMPACT, STRONGAND
effective manner in which it is appled to any beizht of , in, (3 fect to $\mathbf{0 0}$, ) ausd to any kiud of machinery, w Suve in Transportation Material and Yabor, from

26 tu 50 , per crut. of the entire cost of the
Strueture to which it is arplied, and yropor-
tionaily increase its value.
For full information from the Ioscontor, apply at the
Miners' Foundry, trom 10 to 11 A . m., or address
J. M. HETH.

M2. This Wheel i, fully Gicarampen. Janlo-tif

## Holiday Presents!

W ATOHES,
DIAMONDS,
JEWELRY AND SILVER WARE,

## BRAVERMAN \& LEVY'S,

cal Wasnington Strcet,
We cili The attertion of our frianns any
the public in general to our weil uasorted sloek of JEWELRY AND SILVER WARE,

Of the latest and Most Fushinnable sty:es, which wo
FRENCHCLOCKS,
PRECIOUS S'LONES,
Which we are selling, SET or UNSET, at the very lowest prices.

BRAMRCXIAN \& IEVY,
No. 611 Wathingtou
Dec 29 1m
Facing slaguire's Opura House
LEANDER RANSOM Civil Engineer AND
SURVEYOR,
Having been connected with the public works of the State of Dhio for 20 years, aud the public surveys of the State of Califoraia for 7 years. ALSO
state locating agent.
Aud as such having the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in eash and the balance On cretit of seperal years. Express Building, N. E. cor
OFYCE. second floo of
oft-3m

## Agency For Patents.

TIIE, UNDERstGNED having been Inng cetablished in The Patent Agonoy Business, and baving favorable
 tor the securing of caveats and Pratents also, will at.
ten to the sales of Patent Riahits, and to all matiers Counceted witl 1 patcuted inversions.
WETFERED \& TIFANY, Ofice, 410 Montgomery stroct. CFIARIES R. BOND, (Tate City and County Assessor.) REAL ESTATE A。GENT, No. 410 Montgomery street, San Francisco. REAL ESTATE PURCHASED AND SOLD, AND LOANS negotiated.

For Sale Cheap!
A Horiziontal STheAm evgive of cipabbe of driving a ten stamp mill, for sale at half jis orisinal cost. Apply to

Foderal Building,

## DEETKEN'S

Chemical and Mretallurgical Works,
On Ean Brono Tioad, Islais Creek,



he purpose.
SQUARZA'S PUNCH HOME MANCFACTORE.
Whotraitand remal,

Branch uf 406 Montromery street.
JULIUS SILVERSMITH,
Commissioner for Nevada Territory,

## office, in late state capitol,

Corner of Battery \& Washington streets., Room 23, up stairs.
WE WOULD RESPECTF LLY SOLICTT FROM THOSE
 lie drawive up of adidavits, ackinow leugments, the tak. illy of tistimeny; etc.

## JAMES PHELAN

(Late J. \& M. Prelax.)
IMPORTER AND JOBBER,
Wines; Liquors, Etco Etco. Nos. 616 \& 618 Front street,

All Goods Guaranteed. Orders Solicited. TERMS LIBERAL.

THEODOR KALLENBERG,

## Maker of Models

 FOR IN VENTORS.

 No. 4 Sansome strect, conner Marlset, uut.bm)

PALMER, HANSCOMB \& CO; GOLDEN STATE FOUTDRV

AND MACEINE WORKS. First Street, near Market, San Francisco,

 ments for finiclangand exreutng inv and all kinds i Castings ama achius on
San Francisco, November 29, 1882.

## 50 lbs IMARINE AND

Fire-Proof Paint,
 from groubd Mineral Rek contains Arsenic, Conlur, Li-
tharge and six other Miuerals, Wheauserl on the Decks or Buttoms of shmps, it is equal to a cont of stoue, and quite "qual to lopper, no worms will ever elfect it, au
cheaper than any otbu" piant.

DIRECTIONS :
For Decks af slups, the two parts Mineral Paint,
part White Leal. Mixwith Linsect dill.
three parts ? tioeral Pant, mix with Coal Tar and apply
it hot. it hot. sale br anship Chanders an! Tradesmen, in bexe
of 50 lbs each, or by the Pacific Jetullurgical Wotk
25 POUNDS FIRE-PROOE PAINT.
When used on Ronfs, Buildings, or Fences, it is equal
to covering them with a coat of Sone, benog perfectiy to corering them with a coat of Stone, beiog perfectiy
Fire Proof, und constiug less than any pant.

DIRECTIONS:
HUUSE:-Mix three parts Mineral Paint whth one par Whate lead, mix loss paint, more lend. Rour:-Five parte of Mineral Print, one part whise
Lead; mix with Linsced vil. Put ir thuck on a tun Eool Lead; mix with Linsced vil. P'ut is thuck on a tin Eoo
as one cuat when wroperly applifedwhll fash hree years. G. T. Fouque, Superintendent,
WORKS, North Beach; Ofree, 318 californiast, Snal Fxamcisco.

## ESMERALDA CORRFSPONDENCE.

$$
\text { Acrora, Jan. 30te, } 1863 .
$$

Mr. Fiditor :-Quite a large number of your citizens are taking advantage of the present spell of unusually fine weatirer, to pay us a flying visit, to examine our mines aud see for themselves. The hills are daily thronged with new prospectors, looking for "indications," and every thing in the shape of a quartz bolder, will soon be located and recorded and then, after the process of incorporation is gone through with, the stuck will be pushed into the market or pressed apon particular friends, as "wonderfully rich," or as a "good thing." A similar operation was enacted here last fall, by some parties from your city, but upon a somewhat smaller scale. I then cautioned the citizens of San Francisco not to purchase without first becoming posted in regard to the merits of this kind of mining stock.

## WRONO IMPRESSIONS CORRECTED.

I find by conversing with several new-comers that they have been misinformed, or rather, that they bave an iucor rect impression as to the name and location of these mines Many have the name of the county, the district, and the lown in their minds, as different mining districts. For the benefit of the mining public, I will correct this error ; Mono, Esmeralda and Aurora are all one and the same place; the only difference being this: Mono is the name of the county which embraces all, or nearly all, of the territory of he State on the east side of the Nevada, commencing at the intersecting point of the fouth line of El Dorado Counby with the State line, and thence south east, some two hunPred miles; Esmeralda is the name of the Mining District in the county of Mono ;"Aurora is the courty seat or chief Lown in the county of Mono, and is situated on a small flat at the base of Silver, Middle and Last Chance hills, the flat being formed by the conjunction of the gulches, making lown from these hills.

## silver hill mining district.

This District is sitnated about seventy-five miles northFest trom Aurora, and near Carson Cañon. I would have pour readers understand that "Silver Hill,". when spoken ol n connection with this place is not the name of a Mining District, but only a hill in Esmeralda District.
extent of esmeralda mining district.
The territorial exteut of this District is from East to West, from two and a-half to three miles; from North to South about three miles, and embraces the following named bills: Silver, Middle, Last Chance, Monterey, Humboldt, Aurora and 'St. Mary. The town of Aurora is nearly enclosed by these hills, upon which is located from twenty-five 0 as high as one hundred and fifty well defined gold and silfer bearing quartz lodes, and many of them exceedingly ich.

## THE MINES RICTI.

I have operated in quartz for the last twelve years, in Cilifornia and Washoe, but this District exceeds any thing else that I ever saw in the number of its well defined and
bajing quartz lodes. No one here pretends that they
are all Ophirs, Wide Wests, or Antelopes; but every third one will pay from $\$ 40$ to $\$ 60$ per tin in go'd.

> enumeration of some of the princtpal leads.

I will here mention the names of a few good lodes that are owned and worked by practical miners, viz. : The Minson, on the summit of Silver Hill, between Central avd Old Winwemucca, formerly known as the Eclipse, containing 400 feet in length and six in thickness with every indication of a rich lode, when more thoroughly prospected; the Lady Mack is another good lode and well defined, the length of the claim being about 800 feet, but, like many others, it requires more lahor to demonstrate its true value than has yet been expended uponit. The Utah and the Iowa are A, No. 1 lodes, (An'elope not excepted;) both being free from any entangled allegiance to any teighboring lade or spurs. The Dane lode is situated just half way between the two next above mentioned, and is one of the old locations, and from all appearances looks more promising than the Utah did a year ago. This lode is four feet thick, decomposed. and shows free gold. The Yreka, and many others on this hill will surely, before long, prove all if not more than the locators anticipated. The main Esmeralda and Silver Hill are also upon this Hill.
On Middle Hill, are the Pride of Esm eralda, Constantinople, Henry Clay, Live Oak, and Lady Howard, all well defined Todes.
On Last Chance hill is the Wyoming, which is one of the best lodes in the district. It was located on the 20th of October, 1860, and is situated between the Banuer and the Wide West, and directly on a line with the rich Jonston lode. This company is incorporated and has got evergthing in good shape through the pnterprise of their energetic President and Secretary, Peter Oppenheimer. The Blauchard lode, one hundred feet from the Johnston, in a southernly direction, struck excellent rock last week, and the owners ancicipate a "big thing." They have eight handred feet in their claim. The Joe Hooker, is another good lode ; one hundred feet in the claim, two and a-half feet in thickness. I may also add the Mammotb No. 1, Gen. Grant and the Ad Valorum, also the Pugh lode, located October 22nd, 1860, by John W. Pugh. This lode is at right angles with the hill and contains six clains of two hurdred feet each-they hare a shaft to the depth of some forty feet, at which point a rich vein of ore has been found. The well known Wide West is located on this hill, also the Garabaldi, Real del Monte, Alturas, and others.
A word about the extension of the Johnston. The 1st easterly extension of the Johnston has been struck at the depth of fifty feet-the rock is rich; it looks equally as well as the Wide West, and preparations are being made to take out one hundred tons of the rock to be worked. A large yield is looked for by the holdeas of this truly valuable mine. This extension was located on the same day as the discovery claim-the 3 d of July, 1862. Fisker \& Crooker and Parker \& Co. are the locators. They have eight hnodred
feet in the claim. The continuation of this lode was found
by Peter Johuston, the original discoverer of the Johnston
until he found the lode, for 100 feet of the ground. He was so fortuna e as to strike pood pay-rock at the depth of fifty feet. I shall hereafter continue, from time to time, to keep you posted as regards the merits and demerits of the minus and mining operations in this district, \&c.

## A New Mining Region.

A new and probably important mining region has been discovered in the western portion of Nebraska Territory. The discovery was made in September last by a party of some twenty miners, who were returning from the Bitter Root Valley Diggings, to Salt Lake. They cullected about $\$ 50,000$ in a few weeks, which they took to Salt Lake. This newly discovered mining district commences on Wind river, about 400 miles North-west from Fort Laramie, and embraces an area of about 200 miles in length by 100 in breadth. The deposirs discovered up to the present time are of gulch gold, very similar in apptarance and richness to those of the Feather river mines. It will assay at least $\$ 18$ to the ounce.
The region is the same as that described by Lieut. Reynolds, of the United States Topographical Engineers, in his report of 1859, in which he states that he discovered gold in all the streams embraced within a distance of some $200^{\circ}$ miles. It lies at the eastern base of the Rocky Mountains, and is similar in its geological formation to the Salmon river and Bitter Root Valley districts, where rich deposits of gold have been discovered within the past year. The miners who discovered these new diggings unite in the opinion that they will prove fully equal to uny ever discovered on the continent. The distance from Omaha to the Wind River Mountains, at the base of which the first discoveries were made, is tbout 900 miles. The route is all the way upon the north side of the Platte River, and no stream of any magnitude intervenes except the Loup Fork, which can readily be crossed any time during the spring and summer, by ferry.
Freight can be taken to the newly discovered mining region trom Omaha at 16 cents a pound. The South Pass of the Rocky Mountains is only about 200 miles from the mines, The facts given above are obtained from sources entirely reliable.

Tuf Ocean Steamers.-M. O. Roberts advertises the following vessels as belonging to his opposition line of steamers from New York to San Francisco: Illisois, 3,000 tons; Empire City, 2,000 tons; Moses T'aylor, 1,500 tons : America, 2,000 tons ; and the new steamship Bonaparte, 3,000 tons. The Moses Taylor sails on Wednesday, March 11th. The P. M. S. Line.-The Pacific Mail Steamship Company advertise the Constitution to sail on the 11th instant, and the St. Louis on the 21st. The Sonora sailed on the 31st ult. All the above, on both lines, are well built and eubstantial sea going steamers.

Precious Metals.-Thomson's Bank Note Reporter, New York, says there is more gold in the United States now by $\$ 30,000,000$ than there was before the war broke out.
the grass valley, nevada co. sit.ver mines.
The Grass Valley Nettional speake as follows of the silver mines opened near that town, last summer :-
Since the commew ement of the season of stornis, gene-ally so disastrous to the mining interest, the mines out at Greenhorn have, to a great extent tempararily abandoned operations. But there has not been a total abaundonment eveu during the time of storms, and considerable has been accomp'ish d during the past few montiss in demonstrating
the richness of the digrings at Greenhorn ; and the prospect the richness of the digryinus at Greenhorn; and the prospect
of heary expenditures of money in opeuing gold and silver ledges, during the approaeling spring, and a confiruntion of the opinion nuw oltaining, of the great wealth of this regrion. are confidently anticipated ly the people hereabont. In he Greenhorn Company, opened last fall, work is progressing satisfactorily. It will be remembered doubtless that a g goldbeariug quartz vein was opened last lial, the work being done in au open cut, and that the vein was traced but a few feet. yielding therefrom about $\$ 4,000$. A drain was dag from this cut, in the construction of which about ninety tons of quartz were taken out, all of which was crush d, making a handsome yield. A tunnel was subsequently run in to reach the main ledge, striking the vein at a distance of about sixty feet from the mouth of the tunnel, where tlie rock has a rich appearance In the stone wall Juckson claims adjoining the Greenhoru, work is being dune, the pro pects of success being highly flattering. Some work has also been done in the Buffilo, Hirrison, Jackson, and other silver leelges in the Greenhoru district, and when spring approaches, und fears of inclement weather are no longer entertained, we may confi


Nattonal Progrfss in T'uriray.-The Ottomans are fast becoming aroused to the importance of intellectual and material advancement. Of late years they have been sending out agents from their most experienced and intelligent men, to visit other countries and become aequainted with their methods and means of progress. That hitherto declining race is evidently profiting by their observations. Evidences of this are constantly accumulating; among the chief of which may b. noted the fact that an International Exhibi tion of the prodncts of the soil, and mechanical industry of that country is to be innugurated at Constantinople, on the 20th of the present month, to continue for three-months. Foreigners are invited to take part in the exhibition and compete for prizes. It seems that the shaking up of that old dynasty by its late encounter with Russia has galvanized real life into it. The "sick man" of Europe may now be considered convaleseent.
Inerease of Wealth.-The increase of the national wealth for the last decnde is set down in the census iu round numbers at $\$ 900,000,000$, of which about one-third was in States now in rebellion. The remaining $\$ 600,000,000$ consisted largely in the augmented value of real property, chiefly in the Western States. A tract of land in the distant uninhabited wildervess was of little value; but when by means of railroads and steam communications, an enterprising and industrious population were introduced, property advanced rapidly in value. The increase of Bank Capital during the decade was less than $\$ 200,000,000$, and of deposits in Banks $\$ 125,000,000$.
Gen. Surblds.-The military standing of this gentleman having recently passed under a cloud, he has wisely determined to resigu his position in the army and agaiu take personal eharge of his rich mines in Mexico.
There is another California General, we wot of, similarly siauated, who would probably be of quite as much serviee to himself and country by following the example of General S. Mining, when one has a rich claim tn operate upon, is far better to "put money in your purse" than fighting.
The Cartle Manta.--Five or six years ago nearly every one in California was crazy with the cattle speculation. It was said to be impossible to over do the business, and people could not well wait for the natural. inerease of Stock, but eattle were driven across the plains by thousands. The number in the State was then estimated at about one mil lion and their value at $\$ 30,000,000$. About the same number still remain, but their aggregate value has dwindled down to probably less than $\$ 10,000,000$. Several thousand head of cattle have been sold the past season, in Santa Barbara county, for from one dollar and a half to three dollars per
lead.
Cotron is now worth from 58 to 60 cenis per 加. Two jears ago it was dull at 18 to 14 ets.

Another Gigantic Project.
The present is most emphatically an "Era of Magnificent Futerprises." Thefinter-oceanic telegray ; the American Continental Railroad; the tunneling of the Alps and the Pyrenees, and the Suez Canal, would, either one of them, 20 yeurs ago, have been considered as a characterist c rok of the age. Now either one is so lost in the multiplicy, of projects, as searcely to attract any special consideration ; and the gigantic unde taking recently set on foot in Germany, scatcely second to either of the abure, is announced in a simple newspaper item, as among the trifles of the day. This last project is no 1 ss than a ship canal from Amsterdam, through North Holland, toward the Sea-to be 250 feet wide, 24 deep, and 13 miles long. When completed, it will shorten the distance from Amsterdan to Loudon and all the ports south of the Texel, hy abont 80 mites, so that vessels will then be enabled to reach the sea in a fow hours, whereas the present trip occup es several daysi, and sometimes weeks. In order to form a safe sea entrance to the canal it will be necessary to coustruct an artificial harbor, the piers of which will extend more than a milointo the sea. This will be the chiel eaginecring difficulty to be overcome. The tatal ca;ital r quired is estimited at $\$ 7,500,000$, upon which the Dutch Guvernment guarantee an interest of 41/2 per cent. The undertakers are J. G. Jager, of Amsterdam, and the Euglish Engineers, B. W. Croker and Chs. Burn. These gent'emrn have been ten years maturing this project, the grant having been originally asked in 1852.
"The Piysical Men of Onio."-The Commissioner of Statistics of the State of Ohio, in his aunual report, says :
Professor Hemry and myself have been several years engared in defing the American m.an, by accurate measureaccurately the men of Ohio. For this purpose he gives the measurements of three hundred farmers, miners, and laborers, in eleven vilages; of two hundred and thirty others, in eleven vilages ; and five companies of Kenney's cavalryall native Americans. The following appears to be the geceral results of these meesurements : That the man of Ohio is five feet nine and one-third inches high, and is taller than any European nation of which there are measurements. He is taller than the Belgian, by several inches; than the Eng-
lish, and evert the Scotch Highlanders. I'he Highlanders, lish, and even the Scotch Highlanders. I'ke Highlanders,
bowever, exceed the Americans around the chest, and are, on the whele, the stoutest. In complexion, eyes, and hair. the light predominates over the dark. The prevailing hair is brown, and the prevailing eyes gr, $y$ or blue. In one word the native American is a modified German of the time o T'acitus, and such he ought to be from his antecedeats.

Selling Children in Caina.-The Esperance, of Nancy, publishes the following particulars respecting the proceedings of the Sainte Enfrance, in China, exiracted from a letter written by a lady, a native of Nancy, at present residing in Fong Kung:-
All that you have heard about Chinese children is but too true. I'hey are not, indeed, given to pigs here, but that is the case further in the interior. At Hong Kong mothers come to the asylum of the Sainte Enfance and offer their children for sale, as I myself saw ouly a day or tro ago. I have just visited this asylum, kept by the nuns of St. Paul, whose principal establishment is at Chartres. While I was there the bell rang, a nun went to open it, and returned in an instant after with a female infant only a few days old. The price paid was 200 sapelss; but the mother, a hideous creaure, wanted more, or else to have the child's clothes returned, which were accordingly given to her. The nuns told me that there were women who carried on quite a trade in these poor babes. One. had brought no les: than forty to the asylum, and she confessed that before she had the opportunity of selling them, she had thrown above six hundred in-
to the sea. I mast tell you that I stood to the sea. I minst tell you that I styod godmother to the
poor thing purchased in my presence. The great cause of poor thing purchased in my presence. The great cause of and marry again every yeur. The divorced wives, according to the Chinese laws, have the right of life and death over their children, and if unable or anwilling to rear them they get rid of them in any way they choose.

The State Almanac and Hand-Boor of Statistics.
We have rec-ived of Henry G. Langley, of Directory fame, neat Hand-Book Almanac, containing various items of interest of both State and Country. Long may the Publisher live to direct the foot-steps of our citizens.

Coinage.- The amount of gold coined at the San Francisco Mint, for 1862 , was $\$ 33,042,841$-of silvcr $\$ 1,205,698$.

Muxificent Donarfon.-We see it stated in the daily papers that Harvey S. Brown, Frag., has donated to the City College, now a flourishing institution of 125 pupils, the princly sum of $\$ 50,000$ in cash and twen $y$ acres of ground, on what is known as "University Mound," on his Bernal Heights property, snme five miles aut of the city, on the San Jose road. 'This gift is none the less genuine, or positive, by reason of its beins coupled with certain conditions of land sales, bucause those sales are such as the natural and inerit ble growth of the city, in that direction, must bring about in a very short time. The donation is effective so soon as Mr. Brown shatl have disposed of five hundred lots in the aforesaid tract, at $\$ 200$ each. The proceeds of one half of each lot are to gu directly inte the hands of the Crustees, as a fu $d$, until the required number of lots are sold and the $\$ 50,000$ accumulated. Heary H. Haight, Thomas H. Selby, James D. Tlarnton Dr. H. P. Coon, H. M. Newhall, F. Henderson, and other prominent citizens, have each already secured a number of these lots, which are beautiful in point of location, and toward which the city is rapidly extending. The streets on this tract are alre dy laid out, and are named after the principal colleges of the East, viz: Yale, Harvard, Dartmouth, Princeton, etc., while the cross streuts are called alter the most eminent college professors, such as Alexander, Mofit, etc. When located on University Mound, which it doubtless soon will be, it will be known as the University College.

The Hesperian for February is at hand, and is an unusually interesting number. Besides the usual patteris and pattern outlines, it also contains the representations of two of California's flora-the "Tiny Petunia," and the "Purple Wedge-spotted Evening Primrose." The descriptions are by Dr. A. Kelloga, who has done much, through the columns of the Hesporian; to spread before the world some of the beautiful and rare floral productions of our golden State. It is true, as the Doctor beautifully remarks "We owe the world something in return for the spread of their own local knowledge-oft-times of increasing interest as it reverberates upon a distant shore. The commonest objects to us; are new somewhere; the most trifing incidents from our heart's love, are the fragrant flowers along, our path."

The Rising of Springs and Streams, in California, before the Winter Rains," by Dr. Henky Gibbons, is a very interesting and valuable paper, which we intend to transfer to our columns. "The Golden Wedding" is another interesting paper, nad will carry many a heart in California, back to the "Old Folks at Home," as the unbidden tear moistens the eyes which read the accuunt of this "golden wedding" in the far off Eastern State of Maine.

Shooring Molten Iron-This process consists of a hollow shot of any given caliber, with a round hole or fuse in its side ; on the sides of this fuse are two parallel raised lines, grooved on the inner under sides of them, into which to slide a piece of wrought iron to clean the fuse when the shell is filled. The inside of the shell must be coated with some subsisfance, to prevent the molten iron from coming into contact with the iron of the shell. The shell can be fitted to any sized gun ; when filled with molten iron it has the weight and form of a cold ball; when it strikes a solid body it will burst and the molten iron is a thousand times more destructive than a hot shot.

Territorial Enterprise.-We are under many obliga tions to the 'Cerritorial Enterprise, published at Virginia City, N. Te, for its daily supply of mining intelligence, from that important locality. The Enterprise is evidently a live institution, and will, we trust, long continue to occupy the foremost position umong the journals on the Eastern Slope. We now and then miss receiving a number, which would be very annoying, were it not that we can always find access to its files at the Agency room of Mr. Thomas Boyce, corner of Sacramento and Montgomery, St. Mr. B. is the San Francisco Agent for this paper, and receives subscriptions and advertisements for the same.

The news from the Colorado mines is very encourageng. $\$ 100$ per foot has been offered in Los Angeles for 50 ft . iu the Los Angeles Lode, (Colorado Dis.) Fifty feet sold is this city, on the 29 th ult for $\$ 250$.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MNING NOTICES.

ASSRSSMENT: LEETED.
Assessments upou Mining Stock have been levied as follows :-

Overman Mining Co.-25 eeuts per foot, Jan. 29, pryable within ten duys.

Chs. Carey Mining Co.-50 cents per share, Jan. 21, payable on or b fore Feb. 20th.
Air atic. - Fifty cents per share, p yable at No. 4 Armory Hall, san lrameisen, or to the superintematent at the Mine.

Hattie (i. de s. M. Co.-Thirty eents per share, levied Jan. 31, puyahle at Office in sun Francisco, or at the Mine.

Hale \& Noreso-8-Asessment of Ten Dollars per Share levied Jan. 31 - pryable at the Office in this eity, or tu.Johns ka . at the Mine, on or before Feb, 2s.

Nierra S. M. C'o. An Acsessment of ery was levied Jan 22-mable immediately, at Oflice 575 त्रission St.
Mount lavid on ( $0,-$ An Assessment of 50 emits per
Share was hevied. Jan, 23. payable on or before March lst, at (1fice 17 Montgomery Bheck.
Mima I'rieta A. . M. ('o.-An Assessment of Five Dollars per share was levied, Jan. 31, payable un or b fore March 5 th-at (Iffeec, cor. Muntromery de Jackson sits.

Recorder Mining ('o.-An Assessment of One INollar per fout was hevied Jan. 19, payable half on or before Feb. 18, and balance on or before slarch 20.

## askensment sales of mining stock.

Sales of Stoch for non paymeut of assessments are adver tised to bo sold as follows :-

Cole Silver Mining C'o.-Sales by Jerome Rice \& Co., 327. Muntgonery St., San F'rancisco, on the 25th of February.

Combination fr. \& S. Miniug Co.-Sale by F. S. Spear \& ('o., at 433 C'alifurnia St., ou the 10th day of March wext. - Normon S. M. Co.-Sale hy John Middleton \& Son, 40 Montgomery Block, on F'eb. 16.

## company mbetings.

The Lewis G. \& S. Mining Co.-Annual Meeting will be held at 622 Merchant St., Feb. 12, for election of officers. Ida (1. \& S. Mining Co.-A Meeting of Stockholders will lee held at 522 Mantgomery St., Sau Francisco, February lith.

Burning Moscow.-Shares of this Company, in arrears for assessments will be sold at nuction, Feb. 9.
Baltimore America Cunsulilated.-Anassessment of 50 cents per share was levied, Jan. $\overline{5}$.
savage.-An assessment of \$35 cents per share was levied, Јаи. 7.

Hawley. - An-assessment of 25 cts. per share was levied Jau. 5, payable in 30 days.

Cole S. M. C $\%$ - An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United Sitates M. Co.-An assessment of six and twothirds ets. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms 7 and 8 , Guvernment 1louse, Fian Fraucisco.

Sierra Nevadi S. M. ('o. levied an assessment of $\$ 15$ per share, Jan. 15-payable Feb. 18.

Lady Bryan.-An assessment of 70 cts. was levied, Jan. 13, payahle on or before Fel). 16.
Ida G. \&S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.
Henry Martin G. \& S. M. Co--"Thomas Wallace, Trustoe." gives notice that whereas certain parties illegally claiming to be Trustees of this Company, have changed the name of the Corporation to the North Star G. \& S. M. Co., and illegally elected officers tor the same, the public are cautioned apainst such acts, etc.

Red, White and Blue G. \& S. M. Co. levied an assessment of 25 e nts per share, payable on or before Feb. Ist, office cor. Pine and Montgomery Sts.

Live Oak Copper Co.-The Annual Meeting of Stockholders for election of Trustees, will be held at Office, in Mantgomery Block, Feb. 2, 1863.

Coso Silver Mining Co.-The Office of this Company has been removed fiom the Steverson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Moutgomery and Kearny. Entrance on both Clay and Merchant streets.

Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share was levied, Dec. 26, 1862 -payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.

Franco-Americano S. M. Cn.-The following persons were elected officers at the meeting of trnstees, Dec. 26 th Chas. F. Gaian, President and A. S. Gould, Secretary.
The office of this Company has been removed to No 528, Cluy street, Room No. 2.

Central Silver Mining Co.-The Annual Meeting for the election of Trustees will be held Jan. 13, at Office, No. 712, Montgomery street.

Lady Bryan (i. \& S. M. Co.-Shares of delinqu nt stockhroblers will be sold at auction for asseusuments, at No. 400 , Montgomery steet, on Jan, 27 .

Desert Mining $\mathrm{r}_{\mathrm{n}}$.-Shares of lelinquent stockholders will be sold at auction, for nssessments, at No. 400, Montgomery street, Jan. 27.

Keyst ne C'opper Mining Co, advertise for prepozals to purchase or treat 3il quality copper ore. Proposals received till Jan. 15th.
Ifale \& Norcross S. M. Co. hare levied an assessment of $\$ 5$ per share payable on or befure Jan. 26 th.

## WASHOE MINING NOTICES.

Martin White.-An assesement of 20 ets. a share was levied, Jan. 2.
Orieutal G. \& S. M. Co.-An assessment of 50 cts, per share was levied. Jan. 14. payable at Office, cor. Sutton Arenue and O St., Virginia Cits.
Normon S. M. Co.- Mifldeton \& Sons, No. 40, MontMomery Block, will sell delinquent stock of this Company, F'ebruary 16 th.
Baltic Mining Co - Notice is eiven of an adjourned sale of shares in this Company, to take place on the ground, Jan. 31st.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magce-also 20 fect, standing in name of W. Williams. (See 'I'erritorial Ente prise.)
A shland Co.-I. A. Gould, in the name of the Moss Co. notities the Ashland Co. that their westerly drift has cut the Lambledge, in the Moss Co.'s ground, from which the Ashland Co . is forbidden to extract any valuable metals.
Eldorado G. \& S. M. Co,-An assessment of one dollar per ehare was levied, Ded. 31, 1862; payable, Jun. 22, 1863, to the Secre'ary, at corner of Montgomery and California streets, or to the Superintendent at Virginia City.
Texas Co.-Tennessee Ledge. - An assessment of 25 cts per foot was levied, Dec. 22, payable on or before Jan. 21 1863.

The North American Co., Gold Mill, will sell at auction
Jan. 31, stock of shareholders delinqueut in payment of sesaments.
Martin Wilite Minina Compant.-An assessment of teu oents per foot has been levied, payable to the Secretary, at cffice on C Street, Virginia City,

The Sweeney Co., Gold Fill, give notice that Baltic Company lave wrongfuly claimed and worlsed their ground since July, 1860.
The Chmafy Rock Co., lying next west of the Virginia Co. claims have notified the Hazel Green, Tingley and Brach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground..

## esmeralda mining notices.

Tre Zenobia Lode Company, give notice that they claim a saperior title to the Johnson Co., cl. iming the ame ground, so far as said localities conflict. This ground is a portion of that now held by the Conpany known as the Wide West Company. The notice is signed by A. Waddell, J.C. Dorsey, S. P. Dorsa y and James Eiluer,

Ore Tests.-Several inquiries have been made to us of the different chemical tests that will discover traces of silver and copper in the rock. If our friends who are conv, $r$ sant with this matter will forward, information respecting such chemical tests to us, we will be happy to give them publicity. [Amador Ledger.

Persons interested in the above will find the desired information, and much more in the same connection, all valuable to copper and silver prospectors, in late numbers of this paper. A remittance of six months or a years subscription to the Mining and Scientific Press, will afford them all the valuable information obtainable from books in relation to prospecting for either silver or copper, and assaying and testing ores of the same. The dissemination of that class of information is the speciality to which this paper is devoted, and no mineral prospector in the silver and copper regions of California can invest $\$ 4$ to better advantage than by seuding the same to this office and becoming a subscriber and reader of the Press. We shall be extrem'ely happy to receive the oames of all who may favor us with cash patronage. We also pledge oưfelves at the expiration of the year to refund to any party double the amount of his subscription, who may honestly think he has not got the worth of his money in valuable information from our columns.

Subscribe,-A Are you a miner and not a subscriber to the Mining and Scientific P're-s? If so. you are an anuual loser of many times the price of a year's sabecription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanies, which is contained in a valume of the l'ress, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Ho you ever send a paper to the "Old Folks at Howe?" If so, and you desire to send important information and valuahle reading matter, you can find no papr that will be read with so unch eagerness by lhem, or one that will convey to them so full an account of the real industry of the country as the Mining and Sciextrit Prass. We invite all to send us their uames and four doller's, or lun dollar: for six months, and become patrons of the only mining pr per printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for exanmination, and with the hope that it may so for meet with their approval as to wurrant their subscribing for it at once. It is not our usual custom to receive a sulscriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the pre-ent, send the Press for three months even, on the rece'pt of one dollar, in coin or staups. It is our belief that no one will wish to discontue the paper after being a constant reader of it for even that short period.

An 1mpertal City.--The annual expenditures of New York City are $\$ 20,000,000$.

Stlper in Nova Scotia.-A letter from Nova Scotia states that, in prospecting for gold in the northern and eastern portions of the province, the writer found silver, as well as gold, in great abundance ; that in every panful of earth washed from the stream he found pure metal: and veins of spar containing native silver traverse the mountains on each side of the river, and are exposed at some points along the sea-shore.

## MINING AND SCIENTIFIC PRESS.

THE ONLY MINING, MECHANICL AND SCLENTJFIC PAPER ON THIS CONTINENT.

## THIRD YEAR: VOLUME VI.-NETV SERIES:

A 11 ww volumo of this extenswely circulnted parer commonced Sept. Il, 1862. It is mitenden that urery number shan ter eplete with infornation with sermal original engraviuls, of new inventions, etce., grepared expressly
for it for its collingis.
This mpyer is devoted to the above purpusex, together with the interests of ©cience, Arts, Ayriculture and Commerere, and any geural information
that may be of inturest to the reader: and it is the intrntion of the praprie. tor tosture no painas or explecise in making it equal in interest and valuable informition to any paper yet publisled.

The Mining Interest !
 athped to tant plurliose, aud of every thing generally that may bu wisurvice to tho 3inor.

## The Inventor !



 ain Yatents with disp)atch.

## The Mechanic and Manufacturer :

Will be greatly bencittod by its peruani, as ench number will contan sorcral origimal enyravings of new machines and inventions, together with a
large amount of readiak matter apprytaining: flece to. We are constantly
 shall continue to extract whatever may bo ol benefit or interest to our readers.
To Chemists, Architects, Millwrights and Farmers!
This jouraal will bo iuvaluable. All new discoveries in chemistry will bo
 Millwrights will be found in our culumins. The Farmers and Plantrers will oot be neqlecten, engrarings will will he auply discussed.

Terms.
To mall subscribers:-Four Nollars ner annum.
Clab Nates.
Club Rates.
Five Copies for Six Month,s. \$8.
Ten Copies for Twelve Months, $\$ 30$.
Mifteen Copies for Twelve Monthe, $\$ 44$.
Twenty Copies for Twelvo Montlis, $\$ 56$.
For all clubs of Twenty and over, the yearly subserintion is only $\$ 280$ Names ean be sent in at different times and trom different
Specimen copies will be sent gratis to any part of the country.

EWER \& SMYTH, Publishers,
Room 24, (Formerly) U. S Court Building, Corner of Washingtcn and Bat-

# 然位ing and Srientifir gucss. <br> W. B. EWER, <br> EDITOR. 

## MONDAYETENING.

FEBRUARY 9, 1863

## The MINTNG AND SCIENTIFLC PRESS is published at the FXchatg Builliug, Romm 27, corn:r of Butury and W, Whanghn streets sau Frau

 Cer, Cal. at Fifty Cexrs pes month, or of per annum, in adyanceC. W. M. SMITH and W. B. EWER, Proprietors.

Engravings, Elcetrotypes, etc.
We execute at this ofice fugravings and Intustrations on wood, stone
 riptin-Buldings, sketclies of Towns, Jah hinery, stamp Jies, Seals fur laill or Colured Iruing.

30 B WORK-rxecuted with dispateh at thc chenjest rates.
oxs will :emember that when we exente eagravings we will Patrons will :emember that when we execute eagravings we will insert
 vertising Medium to lie found methe conntry.

## To Printers.

An Laterest in one of the mast lunushug and best paying Newspa por Offers in the momitans is ultered for sale nu easy terms. A rare op poltunty is hereby presented to any priuter destrons of e: cablimhing him self is a gnod husiness in one of the healthiust, must thriving and delight ful monutain towns in tho state. For further information euquire at this ofice.

## NOT SO VERY STRANGE.

Much astonishment has been expressed of late, that the immense dep.sits of copper ore now so rapidly being developed in vearly every mining section of the Stute should have remained undiseovered until th" pr:sent time. It is also a puzzle, "strange at least," in the estimation of ove of our mountain contemporaries that -during an excitement of gold discoveries" "we seldom hear of any deposit or vein being found which does not contain gold; while a similar order of things may be noticed during silver, copper, or other excitemen's."
These things are not so very strange, after all, when we come to reflect upon the lack, among our miners, of that particular class of information so essential to the correct understanding of their calling. Who that has spent any time in the mines, especially during the period prior to the Washoe excitement has not noticed, as a fact, most prominentiy developed, that miners of those days esteemed a knowledge of mineralogy and geology a: of very little ac count, "especially in Califorvia," where, they said, "all preestablished rules of mineralogical science are found at fault." The practical miners of California, of the last decade, almost universally regarded with smiles of derision, the aice discriminations and distinctions of the mineralogist. They were looked upon as airy nothings, fit only for cabinet studies, and entirely without practical value in the mining field.

We would not be understood as underrating the general intelligence of California miners; for a residence of more than twelve years among them, a large portion of the time a sharer of their toils and privations, has fully taught us the fact that the world cannot produce their equal, as a class, in that ruspect.
So far as-mining for gold is concsrned, it is true there is comparatively little need of the particular information of which we are speaking; for gold working is the sinplest of all miniog operations ever undertaken. But recent developments have fully established the fact, which is now coming to be universally acknowledged, that, every operative miner, in whatever field, should be thoro ghly acquanted with the nature of the substances upon which he is daily working, or which may, fortutiously, come in his way. Such knowledge should not be confined exclasively to the overseer, or superintendent.
A very slight knowledge of mineralogy would have taught the original owners of the Comstock ledge, to have carefully examined, "the troublesome black stuff," as they termed it, which was all the time in their way while they were searching for gold in the richest silver lead now known to the world. So it has been in hundreds of instances, al. over the State. Many rich silver leads are oow heing opened on the Western Slope, which were abandoned years ago, as worthless, because they did not show the color of gold. So it has been with the more recently discovered leads of copper, in various portions of the State.

Our mountain contemporay, already alludtd to, thinks i
"sirange at least," that the excitements should run in such direct lines-that is; that the discoveries of one period should be all gold, and another all silver, aud another still all copper, etc. Not at all, and from the very reason already nained.

After the Washoe excitement hod proved a reality, "specimens' from that locality were sent into every section of the State, and miners began to run hither and yonder, in search of old abandoned claims, which they recollected had presented similar "indications" to those of the Washoe specimens. Editors thronghout the Siate also rummaged over their old books, and printed long essays on silver mining, silver ore tests, etc. Of course the discoveries then made were chiefly silver. What did the miners know about copper? Bye and bye, somebody who had paid a little attention to mineralogy, casually stumbled upon some copper ore -knew its value, and commenced developing it. It proved valuable. Capitalists and Scientific men went ont to the mines, examined them thoronghly, were satisfied of their value and backed up their knowledge by the reidy cash, paid in hand to the miner for his copper ore. A new idea is evolved-new at least to the Califurnia miner-"copper specimens" begin to travel around. Another search is inade for "old diggings ;" "indications" are com ared; the newspapers publish descriptions of the diferent kinds of copper ore, with directions for tests, assays, etc., and lo! a copper excitement comes up. Nothing strange, is it, that all the discoveries "about these days," should be of copper ?
Our miners are gradually learaing the lessons, the ntility of which they swiled derisively upon a few years since. Bye and bye, they will become very good mineralogists and geologists. But they are learaing these lessons very slowly, and huvdreds among them are losing fortumes, by wating for the knowledge to come to them, when they should go after the knowledge. It should be recol ected that there are many other lessons yet to learn. Gold, silver and copper constitu e but a portion, and we fully believe, even when taken collectively, but the smaller portion of the mineral wealth of Catiformia.
Lest our readers may think that we esteem the mineral knowledge of Californians below the average standard of other cuutries, we will relieve them of any such impression by the following extract, illustrutive of the mineral knowledge, up to a very late period, in a country where mining is now carried on to an extent and with a scientific knowledge nowhere else observed. I'he extract was written for the "OALifornia Mining Journal," published by us three or four years since :-
Sume of the mining districts of Great Britain are utterly destitute of mineralugical education, and it is common to find sume of the most intelligeat miners only acquainted with one or two substances, which are brought prominently before them ia he routine of their employment.
It is a fuct that for sume years lime was expurted to New south Wale-, where it existed in abunda.ice in its natural state, and it is notorious that the discovery of gold in Australia was not made till after it was found in this country.
Cornwall, although it has been celebrated for its tin mives from the earliest periods of history, yet, until the last century the ores of copper were used to repair the roads, and whenever copper appeared in a vein, it was a common expressiun that "the ore came in and spoilt the vein," [just as the "black stuff" did in the Comstock lead, we suppose. Ed. Press.] Even wh a the yellow ore or copper pyrites had been long appreciated, the sulphide of copper was
thrown away, and the rich black ore, or oside of copper, was washed into the rivers.
In Derbyshire and Cumberland, although it is indisputable that lead has been smelted from the common blue ore, (sulphuret of lead) ever since the goveroment of the Romans, yet the other ores of the same metal (white carbonates of lead, \&e..) w.re never thought of, but left in heaps as rub-bi-li-the public roads which had in some instances been repired with hese rejected eres, have been taken up and smelted to good account.. The ores of zinc, both sulphurets and carbonate, were likewise thrown away in many of the mining districts of England until within the last few years. Blend has been mistaken for lead ore, and a blast hearth erected to reduce it, and in an ther case from its resemblance to a certain iron ore, a considerable quantity was bought and couveyed to one of the largest iron works in South Wales. The collection of a series of iron ores from the great London Exhibition of 1851 led to the important discovery that the road into Northampton had been cut through rich iron ore, which in some plaees had a thickness of twelve feet. Then they were iguorant of its value, bat now it is being sent in jmmense quantities to supply the Staffordshire iron works.
So much having been overlooked in a country densely pop-
ulated like Great Britain whose mines now yield on an av erage about $£ 30,000,000$ per annum, it is reasonable to conclude that important discoveries will yet be made in this State.
The last paragraph is most enuphatically prophetic, and fully demonstrative of the certainty with which acculiate science leads to definite results. We may here, mention that the writer of the above extract, was the sume gentleman who first assayed the Comstock sulver ore nnd inrroduced to our people a mineral region to which California, with all her acknowledged mineral wealth, is but the stepping stone, in comparison.

Nautical Magazinf.- We have received the February number of this valuable publication. It is, as usual, replete with new and valuable ma ter appropriate to a magazine devoted to nautical science in general and the comuercial interest of the Pacific Coast in particular. I'his publication is highly creditable to the important interest which it represents, and we know of no other man, between the two oceans who is so well calculated to conduct such a work as Capr Berd-be is emphatically "the right man in the right place," and we trust he may long be spared to fill it

Capt Bell is a man, who, font his youth ap, has been ardently and earnestly devoted to the great and good work of elevating to their proper standard the character and profession of the sailor, and it is a matter of sincere congratulation that the commercial interest of this city has joined hands with him so earnestly in the work. As an important meaus for the accomplishment of the resired end, a large number of the leading ship-owners, merchants, shipmasters, aud marine underwriters of this city have joined with Capt Bell, in a memorial to the Legislature a-king for the establishment of a Board of Nrutical Education and a Mapin school Ship for this barbor. The importance of such a project in an isolated commercial emporium who e rapid prospective growth is so manifest as that of San Francisco, can scarcely be estimated ; and our Senators and Reןresentatives, now assembled, will greatly neglect the interest of their coustituents in this city, and indirectly of the entire State, if they fail to take the iuitiatory steps toward grant ing the memorial above alluded to.

A Valuable Tract of Countiry.-The value of the oil thus far obtained from the Venango, Pa. oil region is estimated at $\$ 4000,000$, yet the producing territory is but some eight miles long, with an average width of less than forty ruds. There appears to be no present prospect of dimuoition in the yield.

Ncrtu Pactpic Review - We have received the February number of this excellent periodical. It is illustraced with a well executed and life-like portrait of Brig. Gen Wright, the Federal Commander of this District. Its literary treasures are bright and sparkling and fully up to the staudard of first class magazine literature.

## NEVADA COUNTY STOCK REPORT.

## [Cumileed frga tae Nbvida bemocrat]

Under date of Junary 31at, the Report of the Democrat eays: "Tho acwity in eoppor speculations, heretufure notel, still continues, and quite a umber of sales have been elfectud, mostly ou private terms. Two shares a the Scarls Capper Mue were sold yesterday for $\$ 100$ enctu-being at the rate of one dolliar per tuot. The clamsof this Compauy are located ou the maiu lead, uear tiso Zinc Louse. A number of orgauized compantes are eu guged in opoding their leads and testang their orts. Specmetus of oru frow Beldwin's lead, vear'Mclarty's Ranch, assay very rach-mo one iustauce a highan 30 per cent. The company owniug this lead is kouwn as the "Consols" Compauy
Prospecting for copper is stall beiur carried on vigorously. A site of 20 feet in the Well lead was tilected on the 28 st ult, at the rate of $\$ 20$ per foot. aud 100 feet in the Champion Company's Lead chaged handsat fifty cents
par fiol.
day Evenong, Februury 5, 1863:

Tallman \& $r_{0} 0$.-Well Lead Compantes.
Cunsulidated
Hugudora..

Champion ( 100 fett) .....................................................

Indications．－Rich specimens of lloat rock were brought into Virginia City，Jan．27，which were said to contain con－ siderable silver．＇Ihey were said to lave been fuund ou the road leading from Virginia to the Reese Rwer Mines，and sombe thirty or forty miled this side of the latter place． （Yuartz of this character is said to be quite abuadant in that lucality but no ledge has yot been discuvered．

## GENERAL MUNLNG STOCK REPORT．

REPORT OF SALES
At tho San Frunciaco Mining stock Bonrt， For the werk cmilith Doliruary 7，1863．

| Namen of |  | $\begin{aligned} & \underline{E n} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { en } \\ & \text { en } \\ & \text { en } \end{aligned}$ | $\begin{gathered} \text { 旨 } \\ \stackrel{y y y y}{*} \end{gathered}$ |  | 容 | 成 | 安 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Opher | 10．su0／1： | 30 | － 4 | 2450 | 2450 | 450 | 300 | 00 |
| （ingit \＆Curry Cumul |  |  | 3150 |  |  |  |  | 走 |
|  | － 3.8040 | 200 |  |  |  |  |  |  |
| Chullar | 5．840］ | ：100 | 450 | ${ }^{575}$ | 575 | 540 | 6.0 | 650 |
| Pitumi | 2.8000 |  | 1：5 | 1：5 | 1：5 | 125 | 1：0 |  |
| Shly \＆Mirctriss | 80 <br> 3 <br> 3040 <br> 80 | 5100 | 610 | 600 6 |  | 01 | 65 |  |
| Dancy－ | 8 \％OOM |  |  |  | － |  |  |  |
| Hurnimg Mavecaw | 4．8000 | 170 | ${ }^{65}$ | ${ }_{65}^{65}$ | 60 | 66 | 65 | 5 |
| rith Priter |  |  | 25 | ${ }_{5}^{29}$ | 30 | 2712 | 20 |  |
| Hogers，V D | －${ }_{7}^{3,000}$ |  | 32 | 82 |  | 7 | 35 |  |
| Cluster Cancy | 1，800 | 30 | 23 | ${ }^{2} 6$ | 27\％ | 40 |  | 49 |
| Sicramento | 1.804 |  | 45 |  | 36 | 40 | 423） |  |
| Luarne | 1.840 3,000 |  | 二 |  |  | － | 二 |  |
|  | 806. |  |  |  | 1175 | 200 | 1：00 | 1800 |
| Inw．a | － | － |  |  |  |  |  |  |
| E．1 liurado | 1，800 |  | 45 80 | 18 | $\overline{22}$ | ${ }^{6}$ | ＂5 |  |
| （warr Itm Tume | － |  |  |  |  | ${ }^{-}$ |  |  |
| Moush paridson Wide West | （10，040 | 3． 800 | 330 |  |  |  | 360 | 360 |
| Autelopo－ | 1：10） | 514 | ${ }^{205}$ | 215 | 215 | 2065 | 245 | 250 |
| merulus | 1，600 |  |  | 51 |  |  | 50 |  |
| Real Del Monto | 4， 400 | 1400 | 20 |  | 28\％ | 281／2 | 31 | \％ |
|  | 1：00 |  |  |  |  |  |  | 100 |
| Siver Hill | 000 |  |  |  | $\overline{32}$ |  | 28 | 100 |

## Coso Stocks．

The Josepluine ehanged bands at the stuck Bonrt，ou Monday，anc Tundhy at $\$ 15$ ，on Thurshay at $\$ 15$ IS and on Saturday at $\$ 16$ ．
Whllow springs－is not quoted this woek．It is held at $\$ 30$ ．

## Mexican Mines．

Mina Priotr－No sales ts heia at $\$ 145$＠13 150.
Dius Pailre was quoted on Tuesday at $\$ 40$ ，on Wedvesdsy at 30 and on Fri－ day at $37 \%$

## San Francesco，February 0lh， 1863.

## STOCK REMARKS

The busincss of the past week has boen mostly confined to socond and third cluss stucks．Ophir and Gould \＆Curry bave been but littie deal in．These stocks seem to have been pretty much withdrawn from the mar－ ket．The amount of busiaces for the werk bas been harge，and at prices very cultsiderably in advaluce of previnus rates．
Ophir has been in steady dem and，$a t$ ；bout last week＇s priees，but with a limitudsupply．Bids，on Friday and satu rday had materially mproved． A divident of $\$ 88$ per fint was teclared on Friday；payible to day．This dividend exceeds the expectations of stockholders．
Gould \＆Cucry hasalso been very quiet during th
stock offering．Prices at about lavt week＇s quetations．
Strage is a But litho atoll a favorite，haviug advanced abolit $\$ 300$ during the week． are generally condeut that this mine will soon prove itself equal to the Dest in Virginia．
Chollar is sill improving，having advanced fully $\$ 200$ since last week The 1 ag witheld decision in jts suit with the Potosi，seems to bo operating In its favor．White its friends are firm in the belief of a still further ad． vance，others lonk as confidently for a speedy deche．The reant of the Inwsuit is still unxiousty awaited，and the＂laws delay＂most severely com－ plainol of by some．
The Potosi decliaes at about the same ratio with the advauce of the Chullar．A lew simple words frum the seat of justice may，at ady moment reverse the order of procussion
Charles Canuy．－The suck of this Company has taken a most remarkable upward tendoncy during the past week，and now，stands at one hundred per cent．in aivance ur its figures one weck since．We are botudvised of the cause of this udvance unless it be a change in the management at the mine， which we believe has been offected within a sbort time．
Sierra Nevala las been somewhat fluctuating，advancing from $\$ 00$ to $\$ 70$ and again recedus to $\$ 62$
Wide West has becu cxtensively dealt in at advanced rates．
Antelope hasadvanced $\$ 40$－clusing at $\$ 250$ ，with a scarcity of stock in the market．
Utah rpeucd nt a figure greatly in advonce of previous quatations，but did not anstain iteclf，closing ut prices but little in adirance of the close of the previuus w eek．
Real del Mute has advanced during tho week from $\$ 25$ to $\$ 30$ ，with good acmand for ite stock．

## ESMERALDA STOCKS．

There has been considerable aclivity mauifested in Esmeraldn Stocks dur－ ing the weekf and geuerally at prices very materially in adyance of pre quatations．

## TRANSACTIONS IN SHARES．

## NEVADA TERHITORY

Burbing Mnscow－20 at se3； 13 at $65 ; 43$ at $70 ; 50$ at $65 ; 38$ nt $67 ; 20$ at 0；18at 00.
C＇luther－40nt 8500；20 nt 625； 20 at 660； 10 at $575 ; 20$ at $560 ; 40$ ut 575 ； 4 al 676； 22 at $610 ; 20$ at $575 ; 40$ at $610 ; 20$ ut 650，buyer 30 days．（ $\$ 950$ iorfert．）
Cedar 11 ill Thamel－ 10 at $85 ; 6 \mathrm{mt} 3$.
 10 at 60， 10 at $62 ; 23$ at $36 ; 20$ at $40 ; 25$ at $45 ; 13$ at $47 ; 10$ at 48 ， 4 ut 50 ； 20 at $50: 20$ at 50
Dimey－：0 at \＄225； 26 at 235
Guverluer Xym－10 at $\$ 7,25$ al 8.
Great Wexterli－10 at $\ddagger 3$.
Gould atul Curry－4 ut \＄3，200； 00 at 3，200；12 at 3，250．
Hazel Grmen－ 10 at 33 ； 40 at 23： 30 ut 2 名。
Moredith－ 36 it 535.
Mount Javidenti－8 ut 55.
Ophir－4\＄at $\$ 2426 ; 60$ at 2,$450 ; 12$ at 2,$425 ; 43$ at 2,425 ．
1＇othil－10 at $\$ 150 ; 12$ at 145 ，wo at $150 ; 40$ ut 125 ，seller 30 days．
relo．－N． $\mathrm{Fth}-10$ at $\$ 29: 400$ at from $\$ 15$（a）$\$ 35 ; 10$ at $30 ; 60$ at $30 ; 60 \mathrm{at}$ $301: 25$ at $20: 10 \mathrm{al} 30 ; 50 \mathrm{at} 30$ ．
Savage -10 at $\$ 1,500$ ，huy＊$r 00$ duya； 10 at 1,450 ；buyer 00 drys
Sterra Novadn－10 at $\$ 60 ; 35$ at $65 ; 26$ at $70 ; 18$ at 75； 10 at 62.
Sheraurnto－10at $\$ 40 ; 5$ at $42 \frac{2}{2} ; 10$ at $45 ; 25$ at $45 ; 5$ at 40.
Union Tuntel and Mining Comphay－10 to 16.

## FSMTRALIA MSTRICT

Antelope－10 at $\$ 210 ; 6$ at $215 ; 5$ at 245 ； 28 at $235 ; 80$ at 240 （a）250．
Esmerialu－20 ut \＄52， 10 ut 50； 100 ut 50 ； 100 at $50 ; 10$ ut $48 ; 20$ at 50 ； 11 at 54； 9 at $64: 15$ at $50 ; 10 \mathrm{at} \mathrm{50} \mathrm{\% 2,2}, 40 \mathrm{at} 50$ ．
Renl Uल Mnute－25 at 31； 11 at 29；526 at from 28 （a） 33.
Silver Hill－50 at $\$ 26 ; 20$ at 33； 30 at $34 ; 25$ at $34 ; 10$ at $30 ; 10$ at $28 ; 50$ at $32 ; 11$ at $32: 10$ ut 32.
Wide Wrat－ 5 at $\$ 332 \frac{1}{2} ; 5$ at $832 \frac{3}{3} ; 20$ at 340 ，buyer 30 days； 20 at 330 ． 0 at 330； 10 at 330,5 at $335 ; 10$ at 340,30 days．

cuso stocks．
Juserbinc－5 at $\$ 15 ; 10$ at 16 ．
COPPER STOOKS．
The Napoleon has been considernbly denlt in the past week，at a slightad－ rand onlast quotations．The following transactions are quoted：－15 sldures at $\$ 37 \frac{1}{2} ; 12$ at $39 \frac{1}{2} ; 20$ at 38 经； 3 att 40 ．

## Stocks In Virgink City．

Corrected by Wightran \＆Mirmbit for the Virginit City Union．
The following stocks，arto in the market ia Virginia City，and held at the prices aunexed：



## ESMIERALDA STOCK REPORT．

At the meeting of the Esmeraldir Stock Board，held January 23d 1863，the following busiuess was traysacted io stocks，as reported in the Es－ acralda Star．

## Union Tunnel．－$\$ 20$ bid， 12 days，nono offering．

Utah－$\$ 10$ bid，cusli，none olfering．
East Essex Ex．Ural－100 feet ulferod at $\$ 10$ ．
Perue－ 12 sharos otfered at $\$$ क．
X－Eliza aud Coustantiuople consolitated－ 50
Chihumba－ 10 feot offered at $\$ 121 / 2$ ，bid 10
Chihumua－10 fect offered at $\$ 121 / 2$ ，bid
Arcade－25 stares offered at $\$ 10$ ，bid 6 ．
Pacilic－100 teet offered at $\$ 10$ ，bid 5 ．
Heath－ 25 shares ofered at $\$ 15$ ，bid 8 ha
Old Windemucca－30 feet offered at $\$ 5$ ．
William Tell－65 rect offered at $\$ 21 / 2$
Ural proper－5 feet offered at $\$ 250$ ，bid 200 ，half cash，bulance 20 dayg． Gou．Jacknou－20 shares ofered at $\$ 14$ ，bid 13 \％／2
Fallistair，Consolidation－ 10 shares oltered at $\$ 5$
Atlantie－$\$ 2$ bid，none offering－
［Green Backs 40 per cent discount．］
Esmeralda Stucks offered at San Fruscisco valuation
Antulupe．．．．．．．．．．．．olfered it $\$ 250$ Wide Wost．
Aotolupe．．
Garibathil．
©tila．
Ctua．

offered at \＄375

TRANSACTONS OF THE WEEK．
12 feet Alturas sold at $\$ 15$ per foot．
25 feet Fresno sold at $\$ 7 / \frac{1}{2}$
10 feet Fresno sold at $\$ 10$ ．
31 feet l＇acitic sold at $\$ 4$ ．
nst．Fur Report of January 30th，see buthom of next column

## WASHOE STOCK RENAREE

［Complasi troak thik Daht Tsiritorial Emterphar．］
Wo infer from the＂Reaports＂of the Territorial Enterprimo that transact ions 1 m mining ntocks in Virgitian City，furlug the week of the market rep－ resented in our insue of to－day，lave manfested un alr of unusual prosperi－ ly－greater than for any similar period nince hitat summor or tall．Consifo－ rable demand has cxisted，during the week，for outside clama，nomo of which have heretofore bot becu taquired for，and were unanleable utapy wrice．There itsit appeara to be quite a demand for mont of tho prumineat clums in the market，at very topportaut meances，As ynt，howover，opo－ r thons arb ctietly conbued within the muans of small capiulists，and，as a consequeuce，trunactiong are light．The demaud for bome clatims greatly exceeta the ineliumbun to sett，ut prosemt rates．The general dispuastion on the jart of buyers appears to be to purchane clajms which bave provon goout，oven with a peuding lawsult，rather than to chanco an unduvoloped sinu．We append tho trausactious and rates of the week，up to tho tatess dates roceived．

## Tursday Evering，January 27.

Accounts from Palmyra are not bo encouraging as to the extent of the mines in thit licatity，althorbta rec ut devolopments milleate the exiatence of several elatins of undoubtud cichauess．The Beweh－l＇axton Co．are now tasimg out rock of much better，utlity than when near the surface．
Sovera 1 ummpurtant bales buvo ubseu placo wo day．
Wedresday Eviming，January 28th．
Flowery Hill is being talked fato some favor．No ledgo has yot been dis． cuvered，but thiry dayz，it is chamed，will solve the problens，
There lian bero cobsilerable iffe in the stnck market，to－dny－much bans hering，much myster y，much quiel ixcitement，but few positive kales．
Thicre bis been sume dulziny for Hazel Grwen at current ratex，and Shc ramento is faught fur al 60 © 65．Welloghton is alsu in demand at our fig ures of yesterday．Wi h these exceptious，which iudicate something of an advance at the atucks anmed，we have no importatht changes to note in our last quotations．

Thursday Evening，January 20th．
Greater activity is manifested in mining stocks，to day that has been no－ ticul for several weeks previuus．Cuasiderable demand is made for out． side claims，sume of which bave not herelofore had a market value，uud were uasalenble at any price．
The Dunn Company＇s atock is in good request at $\$ 4$（3） 5 per font．The clams are suid to present much better quallty of rock as depth is attion－ ed ut the ledige．
Twenty fuet of Hazal Green sold at $\$ 3 / 3$ per font．This stock bas very much depreciated in the market．The itpprarauce of the claims judie．te that a higher figu＇e might be puid with a gond show of suecess for the buyer． Ychow Jucket is in demand at $\$ 100$ per fuel．There appears to be a great－ or disposition on the part of buyers to purchase claims which have proven good，with a pendiug lawsuit，thau to chance a muse undeveluired．
Tweuty feel of the Uatou suld，to diay for $\$ 1212$ ．Teu fuet of Birdsall sold at 20 dultars per foot．Several other sules were consummated，the terms of which are kept private．

## Friday Evening，January 30th．

Teu feet of Sacrumento sold at $\$ 55 \mathrm{per}$ fivh．Nerth Putusi is euquired for at market fites，Jeytohia is enquired for．Ten feet of Birdsall suld fur 20 dollare por fuot．Finty feot or Wellington suld at privalu rates．Twenty feet of Simaloa are regorted to have changed haude at 37 per foot

## Saturday Evianine，Jubuary 31st．

Sacramento is in demand at $\$ 55$ per foot； 30 feet chauged bands at these rates．Yellow Jucket is inquited lor at 110 doliars per fout，aud can be sold at theso figures in lots to suit the seller．＇This cumpuny are taking a large amount of rock from their mius，which，we are intormell，is readily sold at elght dollars jor tou at the dump．The Coppers aud Mills Compuay are tak－ ing some very rich rock from their clunns，resembling the best found in Gold hill．We are not advised as to the quantity of this sind of ore，but presume it is of great extent，bewg the Northern exteusion of the Gold Hill Ledge．Waterhouse is enquired for at 3 名 per foot；Gay at 23／2． El Duralo is quict，beld at 60 dellars，withuat sales．Birdsall is held at from 223 to 25 －iun feet changed hands at 20 ，und finds ready sale at the later ligure．Hazel Green is olfered at $\$ 4$ per foot，but thete is no demand for the stock．IJock was exhibited today，takeu from the Uriental claims，which had tho appearance of beig tich in silver．The rock was from a emall vein verging to the ledge．The Compauy expect to strike the maia ledge within 20 leet or this puiat．
La Crusse is oftered at $\$ 17$ per foot．Wellington is inquired for．Several small sules have taken plate in Gold Hill stocks．Claims in this district are ill genoral demaud aud during the summer will probably cummand high figures in locutions nut at alt promiatut an the markut at preseut．

Monday，Felb．2， 1063.
There has been leas buying in claims to－day thill usual，though not without apparent ucliuntion on the part of those desirous to iuvert．Pres－ ont bolders seem determined on domanding an advance on the current rutes，while the would be－purchasors neem disposed to doubt the propriuty ol stakding the rise．
There has beon considerable demand during the past few days for mition． Fifly feet，we are infurmed，suld to day at $\$ 60$ yer fuut．
Several luts of stock are ofrered for sale tw－day frum Flowery District．． There appears to be no dematud for clams ill the Jocality．Uperatious in these mues have gerertully froven uusuccusstul．
Therv contunes to be some dumund Lur Duna stock．Sovera！unimportant sales labve been eifected iustocky iu Virgiuma aud tiold Bill Districhs．

ESMERALDA MININGS＇GUCK REPURT FUR JANUARY bote． The above reporthas colue to haud just as we go to press，and we guote
 D．$\$ 10$ ；Nenvtul $\$ 50$
20． rue at $\$ 5$ ； 25 ul strawberry at $\$ 10$ ； 75 Garabuidi，Hartford，Co．at $\$ 5$ ．

## Esmeralda stocks offered at San Francisco Valuation－



## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in Eogland and some other foreign countries. Four pateuts-American. English,French and Belgian-will secure an inventor exclusive monoply to his discovery among gne hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of a'l patents taken out by Ameri cans in foreign countries are obtained tbrough the Mining and Scientific Press Patent Agenct. Having establish ed agencies at all the principal European seats of Govero ment, we obtain patents in Great Britain, France, Belgium Prussia, Austria, Spain, ete., with promptness aud dis patch.

Models are not required in any European country, but the utmost care and experience is necessary in the preparation o the specifications and drawingse

When parties intend to tak out foreign patents, engravings should not be publishet until the foreign applications have been made.
Cadtron.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors, We caution the latter against heeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent a home.

While it is true of Most Eurupean comntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex, amination; as it is a common practice when a patentee finds a purchuser for his invention, for the latter to cause such examination to be made before be will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of
patent agents or patent brokers, as they cannot ordinarily be patent agents or patent brokers, a
trusted with valuable inventions.

## Onr Mint. its Rules, Charges and Operations.

In the columns of a contemporary we observe some ex ceedngly interesting statistics of mint matters for many years past, from which we glean the facts that the legal limit of wastage was $\$ 207,76699$ for the three years ending
April, 1857 , while the actual loss was $\$ 266,31286$, exceedApril, 1857 , while the actual loss was $\$ 266,31286$, exceed-
ing the limit some sixty thousand dollars. During the four years of Mr. Hempstead's Superinteedency, the legal limit was $\$ 235,38639$; while the actual lost was only $\$ 4,52035$ being some $\$ 230,000$ less than the limit, and, in fact, a little under two per cent. of the amount allowed by law to be wasted. The wastage of the Philadelphia mint is twenty-
two per cent., against two per cent., wasted by our branch two per cent., against two per cent., wasted by our branch Birdsall \& Lott, amounted to the large sum of $\$ 1.019,275$ 39. Under. Mr. Hempstead, the total expenditures for four years were but $\$ 1,150,64814$; while the difference between the last year of Judge Lott and the last vear of Mr. Hem-
stead was upward of $\$ 100.000$ in favor of the latter. On stead was upward of $\$ 100.000$ in favor of the latter. On
retiring from the Saperintendeacy, Mr. Hemstead left an nuexpended balance of appropriation due the mint of up wards of $\$ 86,000$. This certainly is a capital showing for our mint, and speaks well for Mr. Hemspstead's Superin teadency. Under Mr. Stevens, the present Superintendent. we have no doubt everything wil work in an equally satis factory manner.

## For parting silver from gold when gold

is below $300-1000$ ths, fine.................3cts per oz. from $300-1000$ ths $10750-1000$ ths fine. 7 cts $750-1000$ ths to $950-1000$ ths
Derostts Silver Bullion--Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage
Refining charges (only where gold is contained) proportion of goid 1 to 300 , 3cts. per oz. gross weight

301 " $500,7 \mathrm{cts}$,

## Deposits for Fine Bars

$\$ 116-4$-11ths cents. per standard ounce, $1 / 2$ per ct gross
alue of silver for making bars; also when gold is contained $1 / 2$ value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gros

Bars Sold From Refinery.
$\$ 121 \mathrm{cts}$. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bats.

Drpostred for Dollars.
\$I 16-4-11ths. per standard oz. $1 / 0$ per ct. gross value for
coining, when gold is contained, refining charge the same as in purchases.

Deposited far Imported Bars.
$\$ 116-4$ - 11 ths. cents per standard oz, $1 / 2$ per et. gross

CORNS AND BUNIONS REMOVED.
DR. BYRON C. KENNEDY, practical Chiropodist DR. BY RON Philadelphia, would most respectfully inform the citizens of Sau Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is
prepared to remove all escresences, such as Corns, Bunions. Inverted Nails, Enlargid Joints, Swelled Insteps, Frosted Feet, Chilblains, Callosities, and all diseases of the Feet without pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Ulcers, and all other diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street. opposite the Lick House, from 9 to 12 A. M... and 2 to 6 P. M. Having devoted six years of study to this important, but too much neglected. branch of human knowledge, and having studied anatomy under the most skiitiol and scientific Professors of
Philadelphia, and having made this branch of surgical sciPhiladelphia, and having made this branch of surgical sci-
ence my specia' ity for nine years, enables me to operate ski1fully and successfully. Iu England, France and Austria the highest prizes are often awarded to practitioners in this brunch of surgical science, and it occupies with others an equally lotty position in the profession.
Voizin is an illustrious example, a shining light, among the philosophical stars of Europe, and Dr. Byron C. Kenuedy has fully equiled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa. complimented him with testimonials.
Dr. Kenvedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert that he is now regarded as the leader in this country, iu this branch of the profession, throughout the United States.
The following letter, which emphatically speaks tor itself, was written by Dr. W. L. Stevens of the Uuiversity College of Philadelphia:



 will rcpay you for your years on study, and that you may find
or your exertio sin the gew and growing city of the Pacific.

## THE EYES! THE EYES!! THE EYES!!!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Francisco Deaf, Dumb und Blind Asylum.
After a protracted blindness of more than five years, Dr PARDFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practic ing with a success that cannot be surpassed in the. United States; and as proof of this he substantiates by mayy ca-es
now in California tbat have been cured loy him, after having exhausted the skill of the eminent physicians and oculists o New York city, Boston and Philadelphia.
From an extensive practical knowledge of more than 14 ears, Dr. Pardee asserts, and is aprepared to prove, that there has been more blindness from bad and improper treatment than from disease itself-how can it be otherwise when we take into consideration the effects of the ord hacknied course of local treatment that patients undergo-Caustic to-day and Bluestone to-morrow-more painful than death and always more tedious than the disease. Patients are daily presenting themselves with chronic cases, and on in-
quiring what had beeu formerly done, the almost invariable reply is, "I had my eyes burned with canstic or bluestone;" 'I was bled amd blistered, then cupped two or three times a, week-had a blue pill prescribed for me at night, and salts in the morning-was ordered in a dark room-to keep my eyes tiohtly bandaged-to avoid the open air and excrcise,"
with fifty other inconsistencies, the aggregate of which is with fify other inconsistencies, the aggregate of which is
sure blindness. Patients should be careful and not place their eyes at the mercies of a man who does nothing but burb them daily, not investigating the circumstances of each particular case, but ignorantly and blindly adopting and following theories the most erroneons, and destructive to the experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. PARDEE has from sixty to one hundred patients under his daily supervision, and, with but very few cases, they have all been treated by other physicians hefore applying to him-and
all to no benefit. Those wio are doubtful are permitted to call at Dr. Pardee's office and confer vith the many patients who convene there between the hours of 9 and 12 in the forenoon: The. Dr. has a large and only assortment of Artificial Eyes on this ccast, inserted, having all the movements of the real eye, and that they lor $\mathbf{k}$ so life-like that no one can tell them, when properly inserted, frcm the real eye. These
eyes are sold reasonable. eyes are sold reasonable.
All the operations performed, such as "Strabismus," or cross-eyes-" Cataracts"-or removal of the Lens by absorption or extraction;-"Plerygium," or fieshy membranes growOFFICE: -Clay street, abore the Plaza-opposite Plaza Hotel-old No. 217, up stairs.

## Dr, Van Zandt, Consulting Physician and Surgeon, OFFICE: <br> Corner of Washington and Sansome Streets.

The Great. Success of this Centary, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases


## Give the bory strenth, and nature will relieve herself. Purify the lifo

 blood, rebder the stomich, liver, heart, kidney and all the natural fuictoons actire by Ei, ECTRMCAL exchanon, and ni once the uged, the palsitd,
the nervous, the dispiritel, the melancholic, the dyspectic and the invalid the bervous, the dispirited, the melancholic, the dy'spectic
revive under its bugn mituence.
To the Ladies of California.

## Dr. Vin Zandt's success with complaints of women, both in family and flice practice, is owing in his correct view of the origin of all their malulies, Ladies can consult him with entire confidence, as he is at speculator upon humataill--but is provibg himself the ouly member of the legitimaite  <br> All the World Over <br> wherever disease exists, whether specinl to the roil and elimate or com



```
dering pauns of and rheumatic, gouty or mercuriat clam, ocmeter, nod all form
```


ct, lloating specks before rision, twitching of the cyelids, nervons dean
roaring and buzzng noises in the ears, giddinuss, cte. All operations cessfully doue on those delicate organs of sense.
C. THOMAS, Plaining Mill, Californin strcet, facing the Mission R. R ml
m . Depot. San Francisco.

TURNER, MARsH \& USGOOD, Successors to C. O. Turner \& Co., importers
of Wines aud Liquors, S. E. cor. Front and Sacramevto sts. m 1
D. J. B. BLERE-Hentist. 617 Clay street. All operations on the tecth
performed in the most skilfinland approved manner.

KILY \& WADE, Impotiers nnd Dealers in Paints, Oils, Tumpentine, F
Nos. 105 \& 30 Califnin strcet, Bet. Marif avd Front.
W illiam Fell, Notary Public for Storey County, Ne T. Commissinner of mat
PALMER, HANsCOM\& Co. Golden State Foundrs, and Machine Torks
(Formerly Sutter Irm Works.) First street near Market. mys.
RO EOTEL, Fire-Proor Brick Building, No. 49 K street, Bet. Second and
Thy
myed, Sicrampnto City. Jas. Smith, Proptr'.


LOWER CALTFORNIA Colonization and Mining Company. HE AGENTS SENT TO MDXICO BY $1 \ddot{2}, 000$ Acres of ricif Agricultcral land,
and $n$ yaluabls, wiver minc,


SPLENLDD ENTERPRTSE.

 Farmora Miners and Rechanles, Hh fambloware pertecslarly tuvited by the anthoriof the Terrltury. The land setwetent, if puint uf ferIf of mojl, in ant exesiled on the Continent. The cliite is unsurpm-sed in the worla. The riched silvar
is kitwa to exist in the Territary are in the imment. viennsy and burduring on the agricultural lands of
N. B. Bear in mind that a share e- ats, nt present, on8200, which watitles the holluer th free tranapurta
 - whole whtermise, being for the mutual beusat of rimbers ouly:
Full uformatinu can be had, and Minera! and Cotton rectimens seen, liy applying at the oflee of the Compa , Nurth-wist cornor of Clay and Froat Street.

BOARD OF TRU:TEES.
A. f. RavTilit, prosilent.




RASCHE \& SONS,

wholesale axd rbtall dealers in
Pianos, Sheet Music
And lincruments of all kives.
Sole agents tor the coleterated manuracturers,
A. Gale \& CO., New Fork;
C. MEYER, Ph hutelphiia.
T. GILBEKT', Boston;
piavos For rent.
New Musis receiued by every stuamer. New Nussic
hunhishced. Muic assurted and bumad in the best style.
A hiberal discount made to tho Traduadd to Prolezsisors of

## washoe

Stock Exchange,
T. F. cor, Monrgomexy \& Nerchant sts. san francisco.
L. W. NeweLL \& CO.,

Buy and sell Washoe, Enmeralda aud othor Mining

DEVOE \& COS.'
STEAM ENGINE MACHINE WORKS,
 pte., ete., malo to order and repairct.
 $B_{A}$ Man Duplicate parts of Throshing and Reaping on the minet reasonable terms. Thecth made to ordor, Steam Engines and Bonlers constantly on
hand, and for sulechoal. Scrow-Cuting and Turning hand, and for sulechoay. Screw-Cutting and Turning
Lathen for sale.
DEFOE CO.

## Attention ! so Attention!

部


 | markiet |
| :--- |
| turn |
| tor thine |






HIRTEEY'S. BROWN, No. 19 Nagke's Building.
Lithogrnphle Mapa ean bo reen and had at the almoy
no 13 Gmo
wated oflece.

## A. ROMAN \& Co., wionsens: An prexat

Book Establishment, 317 and 410 Mont gomery street, san francisco.


 A Manuil of Metallurgy. o
Cluenistry of Mutnle.
Records of Mining and Metalhargy, or Facts and Mem-
oranda for the Use of tho Mine Agent and Smelter. orunda for the Use of tho Mine Agent and Smelter By Jantes Phillips and John Darlington.
Samal of Metallurgy, mure particularly of the precious
netals; but includ wg such otbers as are omployed in dent:al priketice.
Pggat on the Cla mastry and Mitring of Copper. Practical Mineral Assaying and Mining. Overman. Gotu Sindug and Asinying; hy Phiips, Miners' Compmion and Guido, emmpiled by Silversmith.
Assayerrs' Guide; or Practical directious to Assayers, MiPractical Assuy lige, by Michell.
itrer Ores and silver Bines, by Pro. Blako. itrer Ores and Silver 3ines, by Pro. Blako.
Ure's Dictimary of Arts, Manuactures and Mines. Wre's Dictimbary of Arts, Manuactures and Mechanics of Michinery and Engincering Wetsbari's secizanics of Mchinery au
Nevilu's Hy Hiraulic Formula Tables.
Fresulins' Glemical Aunlysis.
Frestulus Clemical Aunlysis.
Together with many other works in this
gnd similne lines va. Books imported to oider on short A ROMAN \& Co 417 \& 419 Moutoomery Street.

## READ THIS:



 burned, as were also the hasband's hands. Flwever,
he bucceaded io mastering the Hames, and preventing
worse consequeaces. - [Eveuing Bulletin, Aug. 4 .

## THEN THIS!

Comet Illumitating Oil !
wanufactured expressiy for stanford Bro
Brand of Kerosene

best family oll in the markft. STANFORD BROTHERS,

3ur Beadtung furi ๒rfinder.
Erffuter, meldice nididt mit ter englifiden Eprade bethant fint, thinten ibre Mrit thumgencil in ber beutidien Sprade madien Sifizenvon Erfinbungen nit furzen, beut-
 man $z^{2}$ aborefiiren an.

## Gird's Budding ${ }^{6}$ Knife,

 1 and Cutlers, or manufacturers of Horticultural description and engraving bee Mining $\operatorname{aND}$ Scientific Press No. Terrritory and workahop righta for sale at rea
sonable prices. Address, Publishers of Mining \& Scientific Press, sepl.8m (Ageat for Patentee,
San Francico.

The Occidental Hotel
Open for the Reception of Guests.
T Mis Motsie mas A1.2. The monern mprove.



News Stand,
cabinet for minerals
A Branch Telegraph Office,
Connecting with all the limep hirnughuthe co
LEWIS LFLAND \& CU.
San Fradcisen, Jan. 1st, 1863.
MUSIC! MUSIC!! MUSIC!!!

## A. KOHLER

mporter of every description of Musical Instruments \& Musical Merchandise SHEFT MUSIC \& MTSICAL BOOKS. GENUINE ROMAN STRINGS, \&c.,

Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstrung Pianos.
RANK AS THE FIRST AND BEST
Initone, delicacy of touch and durability. All the leading Musicians of the country have testified 10 their superiority. A. KOHLER, Agent for the Paciòe Coast. MELODEONS AND HARMONIUMS from the celebrated manufactory of MASON \& HAMLIN, Warranted superior to all othors.
1023 Send for a catalogue and Prico lint.
oct
A. KoHLER, Agent.

## To Mill Owners.

Wastrd, by a person fully competent to the position,
a situation ns Mivisc Surgrincmpent in a Gold or Copper
 ns Superne teudent of Copper Minion Works. in Cornwath,
and has acted in the same capacity in Gold Mines in this
 Ore. Au can give nmple testimoules as to his capacity
or the position he seeks.

## Apply at this Oexice.

PFILADELPHIA BREWERT, Second St, corner of Folsom, San Francisco

## Hœlscher, \& Wieland Proprietors.

$T$ hankful for past matronage to a diseriminating
Thankiful for past patronage to a disceriminating we beg leave to apprise at the same mo.
nient our many friends nid patrons that the above Tient our many friends nnd patrons the sat the above
nell knowil Brewery has been pormanently located in our new premises, on second street - hide former resi-
ddnce or Capt. Folsom where we shall endavor to con-.
tinue in furnishing our numerous patrons with the best article of "Bier." We whal strive to with the betunte the te
arool reputation" for promptitude and the article of "Bier."
good reputation fromptitude and the farpilitul exieen-
tion of orders as heretorore, and therely increasec our

## W. T. \& J. GARRATT,

## Gity Brass and Bell Founders

B $\begin{gathered}\text { ABBET METAL CASTINGS, FIRE ENGNES, FORCE } \\ \text { and Lift Pumps, }\end{gathered}$ and H:ud Bellis and Gongs, Hose und all other j, nints


F. G. BEPLER,

Practical Coppersmith
No. 118 (Old No. 29) Bush street,
Between Sansome and Battery,
Whilst thankful for tho former confidence bestowed repair with cleapness nud dispatch reacrything in my line of business: especinlly all tiads of apparatus used it
Breweries and Distilleries; also, all such as are used where steam, apirith, or pumps of any kind be required.
Also, Kitchen utensils for Hotels, Restaurants and vate houses. Baking apparatus for Bakora and Confec
tioverg, as well as all other kiods of copper work tiovers, as well as all other kinds of copper work
dil orders from tho country promptly attended to.

FREDERICK KESMODEL,
Cutler \& Surgical Instrument Makers
s17 KEARNY STRERT,
Between Jucksun and Washiugton atreets,
$\mathrm{R}^{\text {ECETVED a diploman at the Fals of hita Meclampes' IJo- }}$ 1801 bur chathiruin made Cutitery, with HFRNIA, or Rup.


 uncer tainu nith chatut be r lied oun naid in severe cas


 desirathe material, suct as horn, iviry, etc. Third-The
thid is no adjusted to the sprins thit no novemeut of The budy will movo or divpllace th. There are many
"ther advautages. Exumine und luge for voursulves


## LABOR-SAVING

## Rock Drilling Machine,

TO ENGINESRS, RALROAD CONTRACTORS, TURN-


HAND, HORSE, AND
STEAM-POWER MACEINES.
The Hand Machlnes are expressly adapted for working or ofols, Galicries, etc. , obe ma A FUUR HORSE POWER MACHINF, operated by one man, drives a inachiue cupuble of drilling a four to six ing dameter hole in granto forr feet dep, aud the hard
ifmestone, six feet per hour-the rapidity of the work being limited only by the durability of the steel drill. Satisfactory reference will be given as to the prse-
tical warking of the machine, and ita cutire success in fical warking of the machme, and its catire success in raducing the cost of drilling holes to onetenth of the for mer expense, sud on a rock excuvation of any extent,
from fifty to seventy-five per cent. ou the entire work Responsible parties who have rock excavations to make in any part of the Stite, the subserfber will undertake and guarantec to perform the work required, at a savug of at least twenty-fire per cent. over any ollier proWM. W. DUNN, Fremont street, bet. Market and Mission, San Francisco.

## LATEST IMPROVEMENT

## in Ladies' Buckles.

$\mathbf{M}^{\text {R. REIChel respctfully announces to the }}$ denters io Jewelry, that he has mado mport tuut imprivemeuts in LUCKLiE; which surpass any und all hereto
ore mado. Their simplicity, commodiousness, and beaty render them the most useful as well as ornamen-
Ordens trom the country respectfully solicited, For particulars call at or address, FREDERIK REICAEL, 620 Merchant street, Sun Fraucisco.

## REMOVAL.

## OFice OF THE PACiFIC METTAZ-

 Having enlarged our Works nt North Beach, we aroHow enabled co reduce from 10 to 15 tous of silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased. Cappler olibs-lighest market rates anvanced in cash, for shipments. S. C. BRADNHAW, Agont,

## WRIGHT'S PICKS.

J Ohn wright, of sacranento, has established himJ. self in San Franciseof for the manuficture of every description of IICKS, of the best material, at roduced prices. Prok Exes of the bestiron furnished in any quan Lity, at low rates Orders from the country promptly attended to. N. B. - None genuine unless stampled with my uume. JOHN WRIGHT, 511 Market strect, Opposite Buttery, Sau Francibco.

FULTON FOUNDRY \& IRON WORKS HINCKEET \& CO., MANUFACTURERS OF STEAM EN GNES, Quartz, Flour and Saw Mills; Cast ro
Fronts for Buildings, Mining Pumps, and all kinds of Machinery

## Nos, 47 \& 49 First Street,

Between Market and Mission, San Francieco.
ALL kinds of Iron and Rrass Castings furnished at
short notico. Every style of fin ishing to Iron when cast. Short notice. Ryery style of finishing to iroo when cast itg various forms.
D. B. Hinckley, Wm. E. Worth. Wm A. Field,

OFFICE OF OPHIR SELVER MINING C0., Sau Fraucisco, Feb. 6th 1 63 .-A dividend on the capital stock of this Company las been deciared, payable of and after the 9 th inst. The transfer bouks will be closed from this date until the oth iust.
feb6 N. K. MASTFN, Secretary pro tem.
P. M. S. CO.

PACIFIC MAK STKAMSHIP COMPANY'S steamers of the Athautic and laciaic road with the steamers of the
Steamship Company at Aspinwall.

> FOR PANAMA.

The folluwing Steamslaips will be dispateled in the month of February, 1863.

```
February Ist, Steamer Sonora.
    11th 66 Constitution.
    21st " Si.Louis.
```

Win leave Fulsom Street Wharf, with Passengers and Treasure, for Yanama

AT 9 O'CLOCK, A. M., PUNCTEALIY, Anc-connect, via Pauama Railroad, at Aspinwall, with teamships for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.

504 Corner of Sacramento and Leidesdorff sts.

TO THE CLOCK TRADE.
We Have receiven, ix recent fleet of clip-
pers, a fine assortment of the pers, a dae assor
NEW HAVEN COMPANY'S,
(FORMERLY JEROME)
CLOCKS, Comprising all the Desirable Styles. Also a Largo Lot of

## Fancy Time Pieces

OF NEW AND BEAUTIFUL Patterns. We shall in future be in recelpt of sufficient quantities
of the above goods to supply our largels increased trade. HAYNES \& LATHTON, Ageuts N. H. Clock Co,
Nos. 516 and 518 Eausome st., cor. Merchant ja 26 tf Nos. 516 and 518 Sausome st., cor. Merchant

## SQUARZA'S PUNCH.

## FIRST PREMIUM

AT The sacramento agricultural state fair FOR 1562.

## ALSO; FIRET PREMIUM

At the San Francieco Bay District Agricultural Fair, 1862 Mancfactory, mhoizsale afd retar,
No. 24 Leidsdonfi street,
Opposite the What Cheer House, San Francisco.

## V. SQUARZA'S

Punch Factory.

M
R. SQUARZA IS EAVORABLY know in this state fur his Anti-livorce Liquere
and similar productions, asmanufactured by him. We We
may meution that Mr. Squarza is an fait in the chemicodistilling science, lieace the celebrity of his articles. He has two eslablishments for the sale of his famous Punch Which are constantly thronged with won buraery sitreetWhich are constantly thronged with uur bun vivants.
The following is a list of bis liquors all of which w have tosted, and find theun the most delicious and harm less beverages in this city, being pure, and unadultera ted with drugs or other iuparious chemicals:
Kum Punch,


PEOPLE'S
Steamship Line! CONNECIING
CALIFORNIA AND NEW YORK, va nicarageta.
ros mices Shor tor than any other Route !
The Fast and Fuvorite Double Engine Steamship,
MOSES TAYLOR, 8. Howks $\qquad$
San Juan del Sur, From Mission street Wharf
WEDNESDAY, - - MIARCH 11.1863 Comecting at GREYTOWN whth the splendid ste: miluy ILLINOIS
Reduced rates of Passage sud quick trips are secured the re opeung of the Nicaragua Ruute. and safety, ani every efort will be made to cleanliness comfort of passeugers
For further information apply to
No. 407 Washiugtors Sirect, Agent,
DONAHUE'S
Union Iron and Brass Foundry,
Cormer of First and Miscon Streets, San Francisco.
The First Established in the State.
M ANUFACTURE STGAMENGINES,
SAW AND GRIST Mill Machinery, Puilurs Quartzstampers, Amalgamators, etc., etc., nt reduee prices. Have liow the largest and best assortment on
Gear nud Jachanery Patterns in the State, a list $n$ Which will bo forwardea to auyone dessing it, free of
Cust.

## LEWIS COFFEY AND RISDON, Steam builer and sheet tron

The only exclusively Eviler Making Establishment on the Pacific Cuast Owned and conducted by Practiral Boiler Makers. All orders for New Wurk, the repairiug
of Old Work, oxecuted as ordered, and warranterl as to quality.
Old Stand, corner Bush and Market Streets. Lepposite Oriental Hotel, Su Francisco, Cal.
J. N. RISUO

GREAT REDUCTION IN PRICES.
STANFORD BROTHERS, 121, 123 and 125 California Street,

Keep the Largest Stccki of all Kinds of
Lamp Stock
And will Sell Cheaper than any other House in this state
Lasips, Chinneys,
Wicks, Castraene,
Burning Fluid,
Alcohol, Coas Oil,
Tturpentine, Keroshne Out,
COMET ILLUMIfÁTING OIL
Spery Oq, Lard Oif,
Maceinery 0 f,
Rape Seed 0it,
Cerna Nut Oif,
Polar OII
Linserd Oru, Raw and Boiled,
Shark's OIL,
Neat's Foot Oil,
Tanners Oif, Etc.
Our customers in particular, and the country trade generalis, are requested to aseertaiil our prices before purchasing from traveling agents, as we will sell aft leess
catcs than they can aford to.

## TO OWNERN OF WATER-FOWER

Beth's Hydraulic Presssure Wheel
THE SIMPLE, COMPACT, STRONG AND
effective mauner iu which it is applied to auy beight of rall, (3 feet to :00.) and to any biud of machibery, will
Save in Trausportation Material and Sabor, from
25 to 50 per cont. of the entire cost of the
Structure to which it is applied, and proportionally incrense its value.
For full information from the Ioventor, apply at the Miners' Fuundry, trom 10 to 11 A. m., op address J. . . ветн.

Miners' Foundry, San Francisco.
This Whel iv fully gitakanterd. Jaul9-ts

## Holiday Presents!

 IN
## W ATCHES,

## DIANONDS,

JEWELRT AND
SILVER WARE,

## AT

## BRAVERMAN\&LEVY'S;

 621 Wasningion Street,Wecali, The attevtion of our frients and EWELRY AND SILVER WARE,
or the latest and Most Futhionable styles, which w
FRENCH CLOCKS ,
PREOIOUS STONES,
Which we are selling, SET or UNSET, at the very LOWEST PRICES.

BRAVERMAN \& LETY,
Dec 29 1m Na. 621 Wu-hhingoll S'reet,
Faciing Maguire's Opera House

## LEANDER RANSOM, Civil Engineer AND

## SURVEYOR,

Having been connected with the public works of the State of Olino for 20 years, and the publi
surveys of the State of California for 7 years. ALSO

## STATE LOCATING AGENT.

And as such having the sale of 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and the balanc on a cre!tit of several years. Express Building, N. E. cor
OFFICE: second floor of orfice: Second foor of Express Buiding, N. E. cor-
ner of Sontgomery and California strects. oct-3m

## Agency For Patents.

 the Patent Agency Business, and having favorable
ngements for atteudiug to the iuterests of inveutors arrange patent Ollice in Washington, offer their ser rices
at the Pa
for the securing of Careats and Patents also, will gtfor the securing of Careats and Patents also, will at-
ten to the sales of Patent Rights, and to all maiters ten to the sales of ratent
counected with patented invertions.

WETHERED \& TIFFANY, Office, 410 Montgomery street. crarles r. BoNd, (tate City auad County Assesso
REALESTATE AGENT, No. 410 Montromery street, San Francisco REAL ESTATE PURCGASD AND SOLD, AND LOANS negotiated.
For Sale Cheap!
A horizontal steam engine of A 4 . Horse Power, Fluc Boiler in excellent order Apiginal cost. Apply 10 timp nin, for sale at hall


## DEETKEN'S

Chemical and Metallurgical Works,
On San Biano Road, Islais Creek,
san fbancisce.


 mall owners. No power bor cheal water requirn
bo furpe.

SQUARZA'S PUNCH.
home manufactorx.
Whotesalk and rotall,
No. 44 Lueidesdorff St., near Sacramento
Brasch at 406 Mawtwomery strect.
JULIUS SILVERSMII'H,
Commissioner for Nevada Territory, OFFICE, IN hate STATE CAPITOL,
Corner of Battery \& Washington streets., Rocm 23, up stairs.

W T T
E WOTLD RESPFTFUTITr SOITCTT FROM THOEE
who have busininess relationswilh the nbove num-
 quirink tre wirial achon tis ackommesiniort-such na ing of testinotis, etc.

JAMES PHELAN, (Late J. \& M. Puelasi)
IMPORTER AND JOBBER,
Wines; Liquors, Etcy Etcy
Nos. 616 \& 618 Front street
Between Jackson aud Pacific Streets,
Estublished 1549. EAN FTXNCISCO.
All Goods Guaranteed. Orders Solicited. TERME LIBERAL. Jul. 1-tit.

THEODOR KALLENBERG,
Maker of Models FOR INVENTORS.
$\mathrm{M}^{\text {achinfs, Mathematical, Ontical and Plilognph. }}$ icil Instruments, Senics, Weights, etc.; Steel Stamps, Dies and Dhe Siinking, Entussingstamps.
Repuiring of Mlichinery promptly antended to. Repmiring of Machinery prumptly aitended to.
No. 4 Sansome street, corner Maxket, au7.3m) Sansome Snu Fraucesco.

PALMER, HANSCOMB \& CO;

## GOLDEN STATE FOUNDRY

 AND MACHINE WORKS.$\mathrm{R}^{\text {ESPECTHUILY SOLTCITS ORDERS for all kinds of }}$ BAACHMNERY, for 3ituing and other purposes Having the must complete arrnngements and appoint ments for finishumand executing auy and all kindy of Castings nud Machinery on this Const. San Fraucisco, Novemiver 29, 1862.

## 50 lbs. MLARINE AND

Fire-Proof Paint,
Maveactured by tee pacific metallurgical MI Works in this city, for Hulis and Ducks of Yessels rons grouud hiveral Mick con taige Arsenic, Conper, Li
bharge and six other Milerais. When used on tbe Jifeks or Buttoms ni ships, it is equal to a cont of Stoluc, athe quite equal to Copper, uo worms wall ever effect it, and cheaper than any other puiot.

> DIRECTIONS

For Decks of Ships, use two parts Mineral Paint, one part White Lead, mixwilh Linseed Oil. For Bottoms of cesses, use one part ground sulfhur bree par L® Mineral I For sale by allship Chaudlers and Tradesmen, jn buxe of 50 libs. eacih, or by the Pacific Metallurgical Works.
as POUNDS FIRE-PROOF PAINT.
When used on Roofs, Buildinge, or Fencer, it is equal to covering them with a coat of Stone, being perfectiy
Fire Proof, aud cossting less than any paint. DIRECTIONS:
HUOSE :-Mix three parts Mineral Paint wlth one par lite lead, thin with Linssed oil: if a lighter color is auted, mix less paint, more lead. cud; mix with Linsced oil. Put in thit part white sone coat when properly appliedwill last on a tim Rool Gf T. Fonare Superintendent. BRADSHAW, Agt., WORKS, Norerintendent.
WOKKS, North Beach; Offec. 318 CaliTorniast, Sun Francisco.

a Journal of mininus, agriculiture, manufadtures, science, art, Chbmistrit, inventions, etc.

## ESMERALDA CORRESPONDENCE.

## Aurora, Feb. 9th, 1863.

Mr. Fibirner :-In my letter of Jan. 30th, I promised to reep you pnsted in regard to our doings in this district. 1 avo little to communicare in the way of discoveries thi reek, excepting the Hume Lode which was found a few lays since, and is now the theme of conversation. The oro ooks well, but whether it will carry the owners out of the fittle or big end of the horn, time alone can demonstrate.

## the bodie district.

The great excitement of the day is the Bodie District hich is situated about ten miles South-west of Bodie rreek. The new mines are just below the old diggings. A arge number of well defined lodes have been staked off and ecorded in the local district office. The rock is of a coper color and contains a small percentage of copper. Rock aken from the top of a number of the best newly discoverd lodes assays from $\$ 50$, to as bigh as $\$ 400$ per ton. A new own has been surveyed and lots are held at high figures, hile several new houses are in progress of constructionle present fine weather being favorable to the prosperity ad progress of the new City.
tae tunneling interest of this district
as been little noticed, although it is ono of the greatest nportance to the prosperity of the place. These tunnels re mostly heavy undertakingsand penetrate to a great length fod depth into the several hills upon which they are located, nereby prospecting to a great depth all of the veins of bartz that are intersected by the course of the tunnels arough the hills. This kind of miuing appears to be genrally overlooked by speculators, little or no enquiry being lade for it, when in fact it is one of the best and safest lining investments offered to purchasers, Stock-Brokers nd other mining operators have been generally backward in oming forward and taking hold of this kind of stock, for Le reason that they are, as a general thing heavy and exensive enterprises, a ad a long period must elapse before a eturn can be reasonably expected from the capital thus exended. There is more solidity and permanency in the reat majority of the stock of Tunnel Companies than in nany Quartz Lodes which are now being sold at high rates; he local laws of this district are very liberal in their appliation to Tunnel Companies.

## tUNNELS ON SILYER HTLL

On Silver Hill there are now located and in active operaion, four Tunnel Companies. The first location is the Jnion Tunnel, situated near the base of the hill, on Esneralda Gulch-commencing on the Fast side and runaing vestward, passing through several valuable lodes. The work has steadily progressed since its location and it is now in several hundred feet. It is the oldest location on the hill, and $s$ incorporated. One draw back to the stock of this Company is that the line of its location rans parallel with the Quartz Lodes, instead of at right angles, or nearly so, as it
should do. This is the case with all except the St. Louis. Next above is the Rath and Winsdor Tunnel, below Perry's

Mill-the right of way for 500 fret is claimed by this Com pany, with 2000 feet of croppings, and fifteen blind lodes, of 500 feet on each side, making in all 17000 feet of ground, incorporated, November, 1862; capital stock $\$ 100,000$ shares 1000 at $\$ 100$ each ; place of business San Francisco On the North-west side, on Cotton-wood Gulch, is the American which was located last September, by William P. Pool \& Livingston of your city (not James M. Livengston) and incorporated with a capital of $\$ 600,000$, with 1000 share of $\$ 600$ each. The company claims twenty blind lodes with the right of way for 2000 feet, and they have pushed the work forward with great energy. The tunnel is $61 / 2$ feet high and 5 wide, with an ascending grade of one in.
to each rood, and has now nearly two hundred feet of tunto each rood, and has now nearly two hundred feet of tunor more of the best lodes in Silver Hill. When at the distance of 1000 feet, the end of the tunnel will be at least 500 feet below the surface of the ground. The last and at the same time one of the most important tunnel enterprises on this hill, if not in the district is the Lady Gertrude. This tunnel was located, and is owned and worked by James M Livengston, Brewster \& Kinkåde of San Francisco. Their tannel peaetrates the hill at the lowest point and when it reaches the Old Winnemucca, its depth from the sarface of the hill, will not fall short of some 700 feet and in its course will intersect many valuable gold and silver bearing lodes. It is worked by contract, night and day, at the cost of $\$ 10$ per foot- 400 feet are claimed on each side on every blind ode through which the tunnel may pass. The work of the tunnel is superintended by F. K. Becktel, Esq., a pioneer of the place, a practical miner and an honest and straight forward citizen.

## on middee mil

is located the oldest tunnel in the district, as well as one of the cheapest worked and best conducted Companies on this side of the mountains. Middle Hill tunnel commences at the North end of Middle Hill, about 300 feet South of Court House Square, and runs parallel with the general course of the hill, catting through at right angles some six'y or seventy rich and valuable quartz lodes. It has now reached nearly fise hundred foet, and has passed through two most excellent blind lodes, one of which is over ten feet in thickness and prospects well in both gold and silver. The right of way is claimed for 1800 feet, and fifteen blind lodes of 2000 feet each, making a grand total of 30,000 feet of mining ground. The tunnel is six and a-half feet high and five feet wide, with one inch descending grade per rood. It was located in August, 1861, incorporated as a Joint Stock Company, in September, 1862, with a Capital Stock of $\$ 250$, 000 with 1000 shares of $\$ 250$ ench. On the East side of Middle Hill is also located the Montezuma, which claims similar rights and privileges as other Companies. The tunnel is an excellent looking piece of work, with a good car and car-track. It has now reached the distance of 230 feet into the hill. In my next communication I shall notice Aurora, Pennsylvania, Nevada and Discovery tunnels on Last Chance Hill, and Martinez and Lady Weallly on Martinez
Hill. Hill.

## IRON FOR THE PACIFIC.

The rapid'y increasing demand on the Pacific Cosst, for that great staple of commerce-iron, reuters the early establishment of furnaces for the reduction of iron ore at some convenient point on the Coast a matter of quite urgent necessity. Iron ore. of a very fine quality, has been discovered in various parts of California, but, as yet, at a very great distance from steam communication with the sea board, and at points impracticable tor the delivery of coal for smelting. For many years to come, the above conditions, and the high price of labor and transportation, nust preclude the possibility of California becoming a producer of ron, although sle is rapidly beconing a consumer of that article.
This great commercial need, however, might soon be supplied from a neighboring State in Mexico. Recent explorations have brought to the attention of persons skilled in the manufacture of iron, an immense deposit of that ore in the "Cerro de Mercado," in the immediate vicinity of the city of Durango, the capital of the State of that name in Mexico. The ore in question appears to have formed a mountain of iron, similar in character and formation to the fumous iron mountain in Missouri. Mesers Jose Subizar, Alfred A. Green and James Snegan have "denounced" the mine, according to the Mexican Lawis, and thus obtained legal possession of the same. These gentlemen have forwarded to this city several hundred pounds of this ore which may be seen at this office, and which is pronounced by competent judges, as containing fully 80 per cent. of iron. The ore is exceedingly rich and quite malleable, even in its native state. It exists in inexhaustisble quantities at the mine and may be easily taken out and smelted on the ground. Good coal in abundance is found in the immediate vicinity. The mine is situated only half a league from Durango, between which and Mazatlan is a good road, which in time mustundoubtedly give place to a railroad.
The gentlemen above named are anxious to organize a Company for the purpose of erecting furnaces and machinery for smelting the ore and manufacturing the iron upon the spot.
Certain citizens of Durango are willing to take a large amount of stock in the Enterprise, provided the right kind of a Company can be organized, and placed under the management of citizens of the United States, and directed by persons of experience and energy, who are thoronghly acquainted with the business. There is quite $\pi$ growing demand for iron in the interior of Mexico, and the facilities forits transportation to tide water are such as must give it an advantage in this market, over that produced in any other part of the world. The attevtion of capitalists and ir n mien is particularly called to the Entertrise.

Scoldina.-It is better a woman should scold than do worse. Better for you to endure the present ill than fly to others you know not of. No one relishes the noise of scolising. But, then, scolding may have its advantages. No one likes the noise of a boller blowing off steam ; but it saves the bailer from bursting, we she uld bo content to endure it.

## BODIE MINING DISTRICT.

This new mining district which is incidentally referred to by our Esmeralda correspondent to-day, and which has come into especial notice within two or three weeks past, is located ahout ten miles Suath of Aurora City, Esmeralda. The locality was first discovered by some Frenchmen, as early, we believe, as the summer of 1858 . It was worked as placer diggings until the summer of 1860, when some of the disappointed adventurers to Washoe turned their steps Southward, and prospected along the base of the Eastern Slope until they reached Esmeralda, where they made a halt. From this place a small party went on still farther West, until they encountered the Frenchmen, above alluded to, with their rockers, washing the golden sands from the limited placers of what were thereafter known as the "Bodie Diggings." The new propreitors were looking for "indicatious," and were soon elated with the discovery of gold and silver bearing rock, which led at once to considerable prospecting. Barely work enough, however, was done to develop the presence of promising ore, but not enough to warrant the erection of machinery at that early period, and under the almost total lack of roads.

Matters were thus allowed to rest until some time last fall, when a Company, made up chiefly of San Francisco and Sacramento Capitalists, recommenced operations there, and with such flattering indications, that a consolidation of some eleven companies was made into nne incorporated body under the name and style of the "Bodie Bluff Consolidation end Mining Company," with Governor Stanford as President, and F. K. Becktel, Esq., as Secretary. Their operations thus far have met with the most encouraging results.
About the middle of last month, the town of Aurora was all excitement with golden stories from the Bodie Mines, and "everybody" went out to see the rich strike that had been made, and came back fully satisfied that there was a "good thing" there for "somebody."
Favored by the unusual mildness of the winter the Company has been able to push on its operations with an unusual degree of vigor. About two weeks since, Mr. T. J. Hubbard, Superintendent of the Consolidation Co., according to the Aurora Star of the 31st ult, came into town with some ten pounds of very rich ore from the Company's "New Mexico" Shaft. This vein has been opened to a depth of about eighty feet, and exhibits a character of most unquestioned richness. The vein is six feet wide. T'unnels are being run into the Isadora, and others of the Company's claims which are most promising in their "indications," The Company own eleven distinct leads, the most of which are known to be very rich.

There are two other Consolidation Companies in this district, in active operation. Mills will doubtless soon be put in operation there. The nearest mills, at present in operation, are nearly six miles distant from Bodie, on the road to Aurora. Important results may ere long be expected from this new locality.

Miners Wanting Water.-Much complaint is now being wade in nearly every section of the mines, at the lack of water for mining purposes. The rivers are unusually low, and many small creeks and gulches which usually furnish an abundance of water for their respective localities, during the winter months, are now almost dry. The searcity of water the present siason affords a striking contrast to the floods that poured over the country one year ago. Late adnces from Lower California say that the "early and latter rains" have not yet (up to Jan. 7th,) made their appearance there, while the natives insist that the "rainy season" has fully passed.

Mining in New Zealand.-Several Quartz Mills have recently been put np sear Aukland, in New Zealand. The mines are said to be very rich and the leads very largely developed. At the latest dates from there, it was expected that the problem would be solved in a few days.

The house of a Mr. Longley, in Hopkinton, Mass., took fire lately in the absence of most of the male inhabitants. The ladies, therefore, got out the engine, dragged it to the fire, maned the brakes, and the fiery element soon went out n a sizzle.

## SILVER IN CARIBOO.

The British Colonist, published at Victoria, of a late date claims that rich silver and gold bearing rock has recently been discovered in Cariboo. The mines have lately been visited and examined by a scientific gentleman, who fully confirms the reports. These silver veins are found on the Sougues Creek, and about fifteen miles North of Quesielle village. 'I'wo companies have been organized, and have taken up claims. A quantity of the rock has been taken to Victoria, and it assayed from $\$ 250$ to $\$ 300$ per ton in silver and $\$ 50$ in gold, and 800 pounds of galena. The rock was from a deptli of noly five or six feet. It is said that the ore very much resembles that of the Comstock lead in Virginia City. It is expected that it will rapidly increase in value as it descends. The above may all be genuine, and we sincerely hope it is-but we greatly fear it will prove only the initiatory steps in the programme for another Cariboo excitement.

## WASHOE MINING CASES.

The following Mining Cases now pending before the First District Court, in Nevada Territory are set for trial as fol-

Feb. 26-Calilornia Co. vs. Charles Anderson et als.
Mar. 10-Robert R. Moss vs. Gould \& Curry Gold and Silver Mining Company.
Feb. 27-Frank Perkins vs. Sierra Nevada Mining Co.
Feb. 20-Burning Moscow Company vs. Madison Mining Company.
Mar. 12-Chollar Silver Mining Company vs. D.S. Turner.

Mar. 6-La Crosse Mining Company vs. Burning Moscow Mining Company.

A Mining Transaction.-A miner from the mountains stepped into the salesroom of one of our most wealthy merchants, about four weeks since, stated that he was "flat broke," and asked for $\$ 150$, offering to make over to the aforesaid merchant, a mining claim for the money. The merchant, knew nothing of the man or his claim, but gave him the money and took his bill of sale. He thought no more of the transaction until a few days since, when a stranger called at his place of business and asked him if ho was the owner of such a claim. Receiving an affirmative answer, the stranger offered him $\$ 4,000$ for the same. The merchant hesitated a moment when the stranger added another thousand to his offer. The merchant immediately closed with his visitor and pocketed the cash without any further remarks. The merchant is still ignorant as to whether he sold a folly or a fortune.

Large Treasure Shipment.-The treasure shipment per steamer Constitution, on the 11th, was as follows :-

Total shipment. . . . . ................. \$2,190,572 29
One million of the above was shipped on Governmentac count.
Esmeralida Post Office.-Much confusion exists with regard to the proper direction of letters for Esmeralda. They should be addressed thus : Mr. _ Esmeralda, Mono Co., Cal.
There is only one Post Office in the County, and that is located in the town of Aurora. When the petition for an Office was sent to Washington, "Aurora" was named as the designation of the Office; but as that name is so common, the Department thought proper to adopt the name of "Esmeralda." It would be well, we think, for the citizens of that enterprising mining camp to change the name of the town to correspond with the Post Office. It would be more distinctive and less linble to create confusion.

The Mines in Chien.--The silver mines of Atacama exported 800,000 ounces of silver in bars, $8,000,000$ pnunds of silver ore, $8,000,000$ pounds of copper in bars, and 70,000 ,000 pounds of copper during the first eight months of 1862.

At the Annaal Meeting of the Stockholders of the Melones and Stanislaus Gcld, Silver and Copper Mining Co. the following persons were elected os Trustees for the ensuing year: : L. Caralis, C. C. Grellet, B. E. Auger, A. C. Gay and Gabriel K. Sternot ; and at a Meeting of Trustees held the same day the following Officers were elected: E. Cazalis', President; G. Dusiol, 'Treassurer, and L. Franconi; Secretairy. Office at North-easit corner of Montgomery and Jackson Srteets, Jroom No. 16.

The Hope, Gold and Silver Mining Company, situated in Prince Royal District, Humboldt County, Nevada' 'Territory, is now fully organized. The Officers and Trustees are Sid ney Johnson, Esq., President ; Leon Mejasson, Treasurer ; L. Eirunconi, Secretary, and Messrs. B. D. Aüger, Michel Sehetard and A. Pavillier, Trustees. Office, North-east corner of Montgomery and Jackson, Sts., in Room 16.

Marriage of M. Guizor.-The somewhat romantic circumstance that led to the marriage of M . Guizot is quite generally known. We give it, however, for any one who is. not familiar with it:-
Belonging to a family of distinction, but which had been uined by the revolution, Mlie. Pauline, de Menlan had found her resources in an education as solid as it was varied, and in order to support her family she had entered the difficult and absorbing career of journalism. She was the editor of the Le Publiciste when a severe illness caused by ovep work obliged her to interrupt occupations so necessary to the welfare of those she loved. She found herself in a critical position ; she was despairing, when one day she received an anonymous letter in which the writer begs her to be as ease, and ofters to perform her task during the period of her ink
ness. This letter was accompanied by an elegantly written article, the ideas and style of which were, by a refinement and delicacy exactly modtled upon the manner of Mlle. de Meulan, who accepted the article, signed it, and regularly Ueeply touched by this event, Mlle de Meulan did not fail to relate her adventures in the drawing room of M. Saud, exhausting herself in enquiries, and not thinking of a pale and serious young man whom she scarcely knew, and who gravely listened as she formed all sorts of conjectures Earnestly entreated, through the columus of the journal, to make himself known the generous incognito finally decide to go in person and receive the thanks he so well merited, It was the same young man to whom we have just alluded, and five years after Mille de Meulan was Madame Guizot.

## Remembered and Mourned.-A sad and truthful pictare

 is the following :-For every man who falls in battle some one mourns. Fou every man who dies in hospital wards, and of whom m note is made, some one mourns. For the humblest soldien shot on picket, and of whose hamble exit from the stage of life little is thought, some one mourns. Nor this alone For every soldier disabled; for every one who loses an arry or a leg, or who is wounded or languishes in protracted suf fering ; for every one who has "only camp fever," some hearn bleeds, some tears are shed. In far-off hamble householde perhaps, sleepless nights and anxious days are passed which the world never knows; and every wounded and crip pled soldier who roturns to his family and friends, bring lasting pang with him. Oh 1 how the mothers feel this wa If ever God is sad in Heaven, it seems to me it must when he looks upon the hearts of mothers. We who young think little of it; neither, I think, do the father brothers know much of it ; bat it is the poor mothers wives of the aoldiers. God help them.

A Rather Tough Story.-A learned dissertation held, the other evening, upon the subject of "Bed-bugs ani their remarkable tenacity of life." One asserted that th could be boiled and then come to lite again. Others s that they had soaked them for hours in turpentine withou any fatal consequences. Old Blood, who had been listenid as an outsider, here gave in his experience in corroboratio of the facts. Says he, "Some six years ago, I took a bei bug to an iron foundry, and dropping it into a ladle wher the melted iron was, had it rua into a skillet. Well, old woman used that skillet pretty constantly, and here other day it broke all to smash, and what do you think, tlemen, that ere insect just walked out of his hole, where hes been layin' like a frog in a rock, and made tracks for his 0 roost up stairs! "But," added he, by way of parentbesi "by George, gentlemen, he looked mighty pale."

Ir is said that in England three hundred families contre the Government, a few thousand landlords own all tl soil-five men ewn one fourth of Scotland, fand five lious of adult men have no voice in the Government.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

ASSESAMENTS LETIFD.
Assersmenta upon Miniug situck have been levied as fol-
C'uledunis $G$. \& S. M. Co. levied an assessment, Feb. 1 f ju conts per share, payable imnediately. Sulo of delinent stuck will be made Mareh Th.
Muss 1s. \& S. K. Co.-Au assessment of 50 cents per hurd was levicil Jant, 27, payable at +2n, Montgumery st. It tho superintendent at the mine.
White C'loul (G. \& A. M. Co. levied an assessment of ic conls per shire, $\mathrm{O}_{\text {an }} 27$, payable to the Secretary, at 24. Montgomery it.

Wurren ( $\mathrm{i}, \& 8$. Mining ( B - - An assessment of \%i) ets share was levied Jan. 26, payable to the supt, at Vingin4 City, or to the sec., 426, Muntgonery sit.
Warren (t. \& S. M. Uo.-An ilssessment of 50 cents er share wiad levied $\sqrt[J]{ }$ en. 27, payable to the sec. in this ci$y$ or to the supt. at the mine.
Eil Duraib G. \& S. M. Co.-An assessment of One Dul ir per share was lovied Jan. 23, payable to the sec. or to Le Sixpt.
Gaudaloupe S. M. Co.-An assessment of \$30 per share as leviend. payable on or befure March list.
El Tesora Miuing Cu.-An assessment of $\$ 11 / 2$ was levdan. 27, payable at uffice on or befura Feb. 27.
Pular Star G. \& S. M. Co. levied an assessment f 50) ceuts per share, February 4th, payable on i before the 4th of March, at the Uffice in this city or

Dios Padre G. \& S. M. Co. levied an assessment of 3 dollars per share, Jin. 31, payable in 30 days, also an assessmeut of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.
Beckwith G. \& S. Mining Co.-An assessment of 25 couts pur share was levied Jan. 24, payable immediately.
Sonoru Mining Co.-An assessment of 25 cents per share was levied dan 23 , payable imediately.

Overman Mining Co.-25 cents jer foot, Jad. 29, payable within ten days.
('hs. Caney Mining Co. -50 cents per share, Jan. 21 , payable on or before lieh. 20th.
Auratic.-Fifty cents per share, parable at No. 4 Armory Mall, San Francisco, or to the Saperintendent at the Mine.

Hattic G. \& S. M. Co.-Thirty cents per share, levied Jan. 31, payable at Office in San liruncisco, or at the Mine.

Tale \& Norcsoss-Assessment of Ten Dollars per Share, levied Jan. 3 - payable at the Office in this city, or to Juhn Skae, at the Mines on or before Fel). 25.

Sierra S. M. Co. An Assessment of 821 was levied Jan. 22 - payable immediately, at Offee 570 Mission St.

Mount Iavid:on Co.-Au Assessment of 50 cents per Share was leviel. Jan. 23. payable on or before Mareh Ist, ut Utice $k 7$ Montgomery Block.

Mina Pricta S. M. Co.- An Assessment of Five Dollars per sharo was levied, Jan. 31, payable on or bi fore March 5 th-at Office, cor. Moutgomery \& Jackson Sts.
Recorder Mining Co.-An Assessment of One Iollar per fout was levied Jin. 19, payable half on or before Feb. 18, and balance on or before March 20.

## Assessment sales of mining stock.

North Poto-i Mining Co.-Sales deliquent stock will be made March 17.
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be made Ilarch 1st.

Sales of Stock for non-payment of assessments are advertised to bo sold as follows :-

Cole Silver Mining Co_-Sales by Jerome Rice \& Co. 327, Montgomery St., San Francisco, on the 25th of February.
Combination G. \& S. Mining Co.-Sale by E. S. Spear
\& Co., at 133 California St., on the 10 th day of March next
Normon S. M. Co.-Sale by John Middeton \& Son, 40 Montgomery Block, on Feb. 16.
Burning Moscorr.-Shares of this Company, in arrears for assessments will be sold at auction, Fel. 9 .

## company meetings.

The Lewis G. \& S. Mining Co.-Annual Mecting will be held at 622 Merchant St., Feb. 12, for election of offcers.

Ida G. \& S. Mining Co.-A Meeting of Stockholders will be held at 522 Mantgomery St., Sais Francisco, February 17 th.

North Winnemucca $\mathcal{A}$. \& S. M. Co.- $\boldsymbol{A}$ meeting of the Trustees will be held at the Company's office, in this city, on Friday, Feb. 20, for the election of Officers, etc.

Baltimore America Consoliduted.-Auassessment of 50 nts per share was levied, Jun. 5 .
Siwage.-All assussment of $\$ 35$ cents pershare was leviod. Jan. 7.
Hawley.-An assessment of 25 cts . per slure was levied an. 5, payable in 30 days.
Cole S. M. Cin.-An assessment of One Dollar per share pas levied, Jan. 10, payable, Feb. 1.
United Sitates M. Co.-An assessment of six and two hirds cts. per share was levied Jan. 10, 1863 , payable to the superintemdent at the mive, or to the Secretary, Rooms if and 8 , Guvermment IIonse, Gan Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15 -payable Feb. 18.
Lady Bryan. - An assessment of 70 ets. was levied, Jan. 13. payable on or before Feb. 16.
lda G. \& S. C'J. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.
Henry Martin G. \& S. M. Co--"Thomas Wallace, Trustee." gives nutice that whereas certain parties illegally claim ing to be Trustees of this Company, have changed the name of the Corporation to the North Star G. \& S. M. Co., and illegally elected officers for the same, the public are cautioned against such acts, etc.
Red. Wifte and Blue G. \& S. M. Co. levied an assess ment uf 25 c nits per share, payahle un or before Feb. 1st office cor. Pine and Montgomery Sts.
Live Oak Copper Co.-The Annual Meeting of Stockholders for election of Trustees, will be held at Office, in Montgomery Block, Feb. 2, 1863.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share was levied. Dec. 26, 1862-payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.
Franco-Americano S. M. Co.-The following persons were clected officers at the meeting of trnstees, Dec. 26thChas. F. Gaian, President and A. S. Gould, Secretary.
The office of this Company has been removed to No 528, Clay street, Room No. 2.
Central Silver Mining Co.-The Annual Meeting for the election of 'I'rustees will be held Jan. 13, at Office, No. 712 Montgomery street.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for asseasments, at No. 400, Montgomery steet, on Jøn. 27.

Desert Mining Co.-Shares of Jelinquent stockholders will be sold ai anction, for assessmonts, at No. 400, Mont gomery street, Jau. 27.

Keystnne Copper Mining Co, advertise for preposals to purchase or treat 3d quality copper ore. Proposals received till Jan. 15th.
Hale \& Norcross S. M. Co. have levicd an assessment of $\$ 5$ per share payable ou or befure Jan. 26 th .
Martin White. An assessment of 20 cts. a share mas levied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cts , per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue and C St., Virginia City.

Normon S. M. Co--Middleton \& Sons, No. 40, Montgomery Block, will sell delinquent stock of this Company, February 16 th.
Baltic Mining Co.-Notice is given of an adjourned sale of shares in this Company, to take place on the ground, Jan. 31st.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See Territorial Enterprise.)

Ashland Co.-L. A. Gould, in the name of the Moss Co. notifies the A shlaud Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ashland Co. is forbidden to extract any valuable metals.

Eldorado G. \& S. M. Co,-An assessment of one dollar er share was levied, Ded. 31, 1862, payable, Jan. 22, 1863, to the Secreary, at corner of Montgomery and California streets, or to the Superintendent at Virginia City.
Toxas Co.-Tennessee Ledge.-An assessment of 25 cts
per foot was levied, Dec. 22, payable on or befure Jan. 21 863.

The North American Co., Gold Hill, will sell at auction Jan. 31, stock of shareholders delinqneut in paymeat of sesaments.
Martin Wieter Mininga Company. - An assessment of ten ocnts per foot has herm levied, payable to the Secretary, at

The Siweenky (Con, Goud Hill, give notice that Baltic Compnny haw wrongfuly clained and worked their ground since July, 1 ar: 0.
The: 'manky Rock Con, bine next west of the Tirginin Co. clams have notified the Hazel Green, Tingley and The ach A Paxton ('ompanys that they are treespassing upon tho Chimney Rock Cu's gromed.

## ESMERALDA MINING NOTICES.

The Zenobu Lome Compani, give notice that they clam $\Omega$ superior title to the Johnson Co.. cluming the same grovind, so far as sais localities couflict. This ground is a jortion of that now held by the Cumprany known as the Wride West Company. The notice is sigued by A. Waddell, J. C. Dorscy. S. P. Dorsty and Jamen Elder,

Orfe Tests.-Several inquiries have been made to us of the different chemical tests that will discover traces of silver amd copper in the rock. If our friends who are convirsant with this matter will forward inlormation respecting such chemical tests to us. we will be happy to give them publicity. [Amador Ledger.
Persons interested in the above will find the desired information, and much more in the same connection, all valuable to copper and silver prospectors, in late numbers of this paper. A remittance of six months or a years subscription to the Mining and Scientific Press, will afford them all the valuable information obtainable from books in relation to prospecting for either silver or copper, and assaying and testing ores of the same. The dissemination of that class of information is the speciality to which this paper 18 devoted, and no mineral prospector in the silver and copper regions of California can invest $\$ 4$ to better advantage than hy sending the same to this office and becoming a subscriber and reader of the Press. Wo shall be extremely happy to receive the names of all who may favor us with cash patronage. We also pledge ourselves at the expiration of the year to refund to any party double the amount of his subscription, who may honestly think he has not got the worth of his money in valuable information from our columns.

## MINING AND SCIENTIFIO PRESS.

THE ONLY MINING, MECHANICL AND SCLENTHFIC paper on this continent.
THIRD TEAR: VOLOME VI,-NEW SERIES I
A new volume of this oxtensively circulated paper commencod Sept. 11, 1862. It is iutended that every yumber sthall be repleto with informution
concorning Niume, scientific, Mechnnieal and Iudustrial pursuits, together with several orignal engraviogs, of uew inventions, etc., preparud expressly for its columns.
The papyer is flovoted to the above purposen, together with the interesta of science, Arts, Agriculture amm Commerce, ana any gencral intormation that may be of interest to the reader : and it is the intantion of the proprio-
tor tospare ounajus or expense in making it equal in iuterest and valuable tor to spare du paius or expense in maki
information to any paper yet published.

## The Mining Interest!

Will find it of great valuc, as it will contain all the news appertaining to Mining, the mives and sales of Mining Stucks, vew inventions of Machinery
allanted to tuai purpuso, and of uvorythug gencrally that may be ot service to the Miner.

## The Inventor !

Will find it an excellent medum for the purpose of bringing his invention into notice, of ascortaining tho progress of invention in this and other
countries, and also of receiving any information that may be uecessary in ohtaining his patent the prantietor baviug had great experience as a Patent Aerut, together witb facslities at Fashington that enable him to ob aia Patents with cispmeli.

## The Mechanic and Manufocturer !

Will be greatly benefitted by its perusal, as each number will contan serlargo amount of reatling matter appertainmy thereto. Wo are constavtly receiving the hest scientife journals fiom all quarters, from which we
shall continuo to extract whatover may be of benefit or intercest to our slialt coutid

## To Chemists, Architects, Millwrights and Farmers !

 This journal will be invaluable. All new discoveries in Chemistry will be Fiven, ind a largo amount of our columns. The Farmers and llanters will not be neglected, engrarings will be given of agricultural implements, and the farming interesi generally will be amplly discussed.Terms.

To mall subscribers:-Four Dolinrs per annum. Club Rates.
Five Copies for Six Months, $\$ 5$
Ten Eophers for Six Months, git.
Ten Copies For Twelvo Mniths, $\$ 30$.
Fitten Conies for Twelve Mouths, $\$ 44$,
Tweuty Conics for Twolve Months, 556 .
For all clubs of Twenty and over, the yearly subscrintion is only $\$ 280$
Namus can be srut in at differcnt times and litom diffrent Postoficos
ancerime


EWER \& SMITHE, Pablisherg,
Room 27, (formerly) U. S Court Ruildine, Corner of Washingten and Battery stryeth, San Francirco.

#  

 W. B. EWER, EDITOR. MONDAYEVENING..........FEBRUARY 16, 1863.The 3uNING A.ND SCIENTIFIC PRESA is published at the Fxchange

C. W. M. SMITH and W. B. EWER, Proprietors.

Engravings, Elcetrotypes, etc.
Wr execute at this Office Eagravings and Tilustrations on mond, stone,
 Plisiu or Colored Printiag.

 vantare of a Whe turcilation thronglont the Pacific Coast in the best Adartising Nedum to be fuaud in the conatry.

## To Printers.

An Thtrrest in one of the most fomrishmg and best paying Newspr per Offices in the mountains is ontored fur sale on easy ierms. A rare op portunity is herely preacnted to any priuter desimus of eatabtinhing him. self in a gond buiness in the of the healthest, most thriving atad delight Self in a gond buiness in one of the heathest, most thriving and delight
fut moutain tuwns is the state. For further infurmation evquire at this offico.

## MINING INCORPORATIONS,

Notwithstandiug the attempts at editorial pleasantry that are so frequently indulged in by our cuntemporaries, at the lergtheniug list of miniug Companies, and the cumulative exhibits, of the many millions of capital which they represent, "ot paper," each passing month briugs additional exidence that this wealth is far from imaginary. The constant1y inereasing values of the figures which appear in our weekly stock reports, appended to the learing mines on the Eastern Slope, are subboru facts, which must soon make pluin to the most unbelieving that the foot ngs of the aggregate "capital," placed as a value upon the nuiues now in progress of development, are not much too high. Imagination can scarcely form any adequate cenception of the mineral wealth, which is soon to be developed on the Eastern Slope. and throughout the entire length and breadth of the "Great Basin," whose Western and Eastera rims are formed by the rocky slopes of the Sierra Nevada and Rocky Mountains.
Several of these earliest formed Compauies, which, in the estimation of the great mass of people at that time, fixed their capital stock at an alnost fabuluus figure, lave already reached the immediate vicimly of their incorporate value. and their stock will no doubt, ere long, be quoted at a handsome percentage "above par." Indeed, one of them has already exceeded its par value and is quoted to day at more than 60 per cent. adrance.

Numerous others, second and third class mines, are making such favorable developments, at the present time, as give good earnest of an early approximation of their stock to par value.

A ferr jears since scarcely a merclant in San Francisco could be induced to invest a dollar in any mining enterprise. To do so was to lose caste, and endanger one,s credit "on change." Ereu our foundrymen, could not be induced to invest a dullar, in a business to which they were then, as now, indebted for almost their entire business. Now things are entirely chauged, and one can scarcely find a ma.r in Sau Francisco who does not own "feet" in some mining claim
What matter is it if a large portion of these projected companies should fail? All, or even a majority caunot hope to succeed. A sufficient number, howerer, will prove so remoneratire as to return a handsome aggregate pe:centage on all the money invested. Hitherto the chief burden and losses attendant upon openiug up the mines of Catiforuia, hare fal'en upou the mining conmunity almost exclusively, while the commercial and agricultural interests have been greatly profited at no risk. It is one of the conditions of mining, everywhere, that many individual losses must ocenr, which, however, are always made good in the general aggregate of pr.fits; and it is creditable to the mercantile interest of this city that it has now taken huld of the matter of dereloping the miues of the State anui is freely pouring out its carpital for that purpose. The aggreyate of these invest ments cannut fatl to le highly remunerat.ve, and will reward the loosers even, in the increased business which qhey will create and concentrate in Sau Franciseo. Thris
city owes its very existence to the mines, and it betrays a feeling of selfishness in any man of means, to refuse to do his part in developing the interest upon which its prosperity depends. Every new Mining Company, whose arganization is announced, is evidence that a new mine has been die covered, and that somebody intends to speud a little money for its development. Every such item is a matter of encouragement, and indicative that the great interest of the State is progressing. We trust the day is tar distsint when we shall fail to find in each morning's paper the annoucement that some new mining organizai ion has been effected during the previous day.

## minivg education.

In our last issue we referred to some of the disadvantages under which the California miners, as a class, labored by reason of the lack of a proper Mining Education. We also adverted to the fact that the popular antipathy against the application , f science to mining, which was so prevalent anong California miners, six or eight years since, has lately been pretty much laid aside. It is now very generaily conceded that an empirical knuwledse of mining is uot the way to succeed in that difficult and uncertain branch of industry. The occurrences connected with the discovery and development of our silver and copper mines have produced sach a clange in public sentiment that, at the present day, it is rare to find a man who will openly avow, even if he secretiy entertains, a belief in a decessary antagonism between theory and practice. Prestice and science have now joined lands in the mines, and the time has passed when the former will venture "to go it blind" in the vaiu confidence of shallow enapicicism. unaided by science.
'The attainment of a passable mining education, when proper facilties and instructors are at hand, is not a work of so much time and study as many suppose. The difficulties aud mysteries involved in becoming an expert in planning and working a miue, and in acquining a practical knowledge of their geological and mineralogical characteristics, are no greater than are to be met with in many other subjects in the usual programme of practical and theoretic education. Experience is the foundation of success in all human undertukings; bat the only value of experience is the facility which it aflurds us to deduce from previous results, a knowledge by which to overcome new or greater difficulties. This is identical with the inductive process of the man of science. But he that confines himself to his own limited experience, shuts his eyes agaiost the lights of science; and, in despisiug the experieuce of others, he will soon find himself burried in the darkness of empiricism, while those who have entrusted him with their business will sarely behold their undertaliugs enveloped in a labarinth of dificulties, which must sooner or later result in common and promiscuons ruin.
A large mine is a complicated machine, aud we might with quite as much propriety place a ploughman, with no mechanical experience, whatever, in charge of a double cyl. ender printivg press, as to place a man, whose experience in min ng is confiued to what he has dume himself, in charge of a mining operation of any magnitude. The art of mining involves a, general knowledge of mechanics, surveying, mineralogy and geology. To understand working a mine-boring, siaking, pumping, winding, stopeing, hauling and ventilation a tolerably correct knowledge of every leading principle in mechanics is needed. Without such knowledge the miner will find it mpossible to decide upon the most economical means and arrangements for transport either in the mine or on the surflace, the kind and capacity of engines needed, or the character and class of machiaery best caleulated to perlorm the work before him. Layiug out the work propererly, each part with reference to another, requires a knowlelge of surveying. To ascertuin the proper place to sink shafts, involving calculations of the dip and strike of strata, prubability of water, faults, \&c., implies a knowledge of geology: while loy the aid of miveralugy only, can he determine the nature and vaine of the minerals upon which he is working, or which may chance to come in his way. On a correet conclusion with regard to each and all these points depends the sucuess of the undertaking. The emplogment of experienced mes with liberal salaries, to superiutelud works
of this description may, safely be predicted as uniformly resuiting iu larger dividends to stockholders, and increased safety to mile aud workmen. Experience, coupled wilh a
proper application of science, is the only foundation of fitness for the position of Mining Superintendent. The lack of these requisites has cost English adventurers millions of pounds sterling-sometimes in the faulty opening of a miue, at others in the lack of mineralngical knowledge for determining the value and character of the mineral when found. We gave several instances of the latter in our last issue, we might multiply instances of the former adinfinitum.
It is to the lack of this latter information that we must at tribute the delay in the development of the silver and cop, per mines of the State, a full decade beyond the time when their existence should have been known as the result of actual explorations.
There is but one way to remedy the evils here pussed in review and provide our State with a competent corps of mining cagineers and superintendents- $A$ Scloool of Mines must be established under the patronage and partial control of the State. An institution of this kind is absolutely. necessary to a proper development of our resources. Wo need it as a collector and conservator of mining knowledge past and progressive. We need it as an institution for the general diflusion of information ia this branch of industrial science. We need it as a place where the working miner, the proprietor and the engiueer may be drilled and schooled in the art of mining, in all its bearings. Such schools have long been in existeuce in nearly every country in Europe, where they are fostered with the greatest care by the differ eut govergments. We shall endanger our reputation ad a progressive people if we much longer delay a movement in this direction. The losses of property and misdirected out lay of capital already seored up, (to say nothing of the sad loss of life,) and laid at the door of inexperience, would have literally endowed half a score of such schools.
Our State Geologist, in his address brfore the Legislature two years ago, advised the early establishment of such a school. We have now a Legislative Committee on Mining. Is there any more important matter which can come before them than that which we are now discussing? Huve they ever thouglt seriously upon it? If so, or if not, heretofure, why would it not be well, at the present time, to prepare the general ontlines of a plan for such an institution, and let it go before the people, with a legislative endorsement, for future consideration.
Legislators are quite ton prone to think that when they have enacted laws for the cr ation and collection of revenue, for the collection of debts and the prinishment of crime; and, perchance, performed the lereulean task of electing a United States Senator, they have fully discharged their legislative duties. They forget that there are other equally, if not more important duties to perform, in proriding the means for properly educating the adult industrial class of society. This is universally done in Europe, at least to an extent sufficient to proride competent directors for all the great industrial interests of the laud. We have neither time nor space to say more under this head than what will be merely surgestive ; but we hold that it is quite time our Legislators should take this matter uoder consideration, and initiate some steps toward an ultimate accourplishment of the end in view. The present "let alone" pulicy must inevitably continue to result in serious losses, both to individu, als and the State, and we slall be fortunate indeed. if our chief industry is not thereby soon completely burried in the darkness of that empiricism in which it is already so sadly floundering.

## COPPER MINING.

A celebrated geologist says:-"Give me a good Copper Mine, and I will not ask for silver or gold." That geo.ugist was a sensible man and knew when he had a "good thing." What proportion of the numerous copper nines, that are now being opened, in varions portions of the State, will prove "good" or remunerative, it it impossible, at the present time to furetell ; but euough has already been developed to prove that the copper mining interest must soon become of great importance to the state. There appears to be a belt of country, sone eight or ten miles wide, rich in ores of copper, and extendiug along the middle portion of the foothills from the extreme Southern portion of the San Jiaquin valley, as far North as Feather River. Auother, and apparently extensive field, has been discorered, embracing a large portion of Del Norte and Klamath counties and extending thence iuto Oregon. In our issue of January 12th,


#### Abstract

- gave some statistics showing the profits of mining for coppuer in veins which assay from 15 to 20 per cent., proving conclusively that such veins must soon become very valua13lo. Cupper ure that will assay 20 per cent. is worth about \$120 per ton in Nuw York. An advance of at least \$j0 per win can be obtaned on all such ore in this city. A well defined copper mine, that will assay 22 per cent, and so locited that its ures can bo laid down in San Francisco, for $\$ 15$ per ton, is really worth as much as the richest gold and silver mine in Wishoe-Ciould \& C'urry and Ophir not excented, provided the mine is capable of turning out the same anount of rock as the Wishoe mines.


GENERAL MINING STOCK REPORT.
RRPORT UF SALES
At the Sun Franclsco Mining stock Board, For tho weenk endiling fi-bruary 14,1803


## Coso Stocks.

The Josephine clanged bands at tho Strek Board, ou Monday, at $16 \frac{1}{2}$,
 Willows siprings was quoted on Monday at $\$ 20$, on Wednestay at 25, on Thurstay nt $22 \%$ nad on Frilliny at 25 .
Cuso clanged hauds ou Thursdas at $\$ 10$, on Friday at 13 and on Saturday

## Mexichn Mimes.

Mina Prieta solut on Friday for $\$ 135$, and ou Suturday at the same Ggaro. Dlou Patre was quoted on Monday and Tuesday at \$40, and ou Frirday at 30 .

## San Francisco, February 16ih, 1863.

 STOCT REMARKS.The Jinlng Market, for tho week, has manifested a fair degree of activity notwithataudhg the unfavorable condition of the weather mueh of the
time. The diapositma to operate in second and third chass stochs, appears time. The diapositimn to operate in second and third class stochs, appears among nperatora in thas eity. Our Slock Report from luat district will be found full and reliable, avd preseuts a very cacoaraging indication of the progress and value of the mues iu that loeality.
Ophir is without any materfal change. With sumo little fluctuations in the interm, the Elock board clused the two last weeks with the same fig-
ares- $\$ 8,600$. The recent influx of water to that mine, has arus- $\$ 3,600$. The recunt influx of hater to that mine, has been overcomo.
It proceded, as we intimated it possibly did, from a uew veiu of ore, which had been struck in the drift being driven Wentward. The ore is pronounced rich. If so, and the vein should prove, as is thought it may, to be the "Tirginia," the late putchase of that Compauy's miue must prove of great adrantage to the Ophir Company. Gould \& Curyy has been but littlo tations. \$100 per foot is offered for the next dividend. It is rumored that
the this Company has withdrawn its ores from all outside mills, for what pur pose is not knowu outside of the Directors.
Chaflar has recencel a material check in its upward tendency, and has beeu subjected to great fluctuations during the week. Sales have been
effechin as low as $\$ 550$ and from that up to $\$ 550$ ling been puid effectid as low as $\$ 350$ and from that up to $\$ 550$ lans beon paid.
Potosi, ut the close of the week, malied from its low
Potosi, at tho close of the week, ralied from its low rates of the previous ten days aud now stauds firm at \$20 advance.
The Cbarles Caney is stilladvaucug, although wavering a little at the
close ot the weck, notwithtanding the intelligence of the seltlement its stit with the Danry Cor, by accepting 100 leet of the 180 feet in dispute. This piece of gromen was baown to be valuhhe, and the loss of 80 feet of griod ground nect cause no uncasiness to stockiolders, especially as operaLinas arn in progless which will, in all probability, sonu develop a largu ex
 comby hought to be out of rench, except by extraordinary expenso. The
muscht suptatentent of the mus is a man of eocrgy and one thoroughly musent supte mtendeht of the
acquainto with his business.

Wisc Weat shates hase experienced further fuctuations. They opened at $\$ 350$, fell to 320 , but rallied at the close of the week to $\$ 335$.

## TRANSACTIONS IN SHARES.

## NEVADA TERRITORY.

Burnlug Moscow-80 at $\$ 85$; 20 at 70; 26 at 05; 50 at 65 ; 130 at 65 (3) 75


Churles ('ancy- 30 at $\$ 36 ; 10$ at $50 ; 180$ at 65 (is) 68.
1 batey- 20 at $\$ 2555^{2}: 02$ at $260 \Leftrightarrow 300$.
Gould and Curry- 8 at $\$ 3,250$.
Hale \& Nureross-75 ut 550 @ 575.
Juwa-:0 at $\$ 125$.
Huzcl Green- 000 at $\$ 3$.
slereduh-80 at $\$ 38 ; 20$ at 32.

Nortel-10 at $\$ 28 ; 10$ at $30 ; 160$ at 28 (ati) 30
Ophir-60 at $\$ 2625 ; 12$ at 2,$600 ; 303$ at 2,425 (3) 2,050 .
Fotosil-10 at \$110 silter vo day; 40 at 126; 40 at 110; 20 at 110 (a8) 150 .
l'oto i North-10 at s28: 2inat 28; 168 at28@ 31.

stavage- 5 at $\$ 1,350 ; 3$ ut 1,300;1 at 1,400.
 Sacramento- $10 \mathrm{nt} \$ 55$; 82 at 15 (a) 50 .
Chenangu- 100 at $\$ 1 \%$.
Madison-25 at $\$ 9$.
Ef Horludu-20 at 550 . Lucerbi- 36 at $\$ 6$.
Uuinn Tunuel Miluy Co. 25 at $\$ 22 \%$. Uniou (Huss Dis.) $60 \mathrm{at} \$ 3,26$ at 2 , S Uniou Guld and Slyor Bliuing Co. 25 at 23

## FSMERALDA MSTRICT

Antelopc-7 at $\$ 300 ; 5$ at 300; 20 at 300; 4 at 305; 5 at 270; 215, 205 @ 305 Garibudi-: 0 at $\$ 30$.
 3 at $04 ; 10 \mathrm{nt} 60 ; 15$ at $58 ; 10$ at 50 , 203 at 55 (a3) 62 .
Real del Moutc-10 ut $35 ; 20$ at $34 ; 50$ at $31 ; 5$ at 32 ; 5 at $33 ; 20$ at 36 ; 12 at 45 ; 673 ut $90 @$ @6.
Slver $4111-26 \mathrm{at} \$ 33 ; 60$ at $33 ; 20$ at $32 ; 288$ at 31 ㅇ⼸ㅇ 34 .
Wide West-5 ut $\ddagger 3525 / 2 ; 3$ at $335 ; 4 \mathrm{nt} 33218 ; 3$ at $385 ; 192$ at 320 @ 385 . Ctah-10 at $397 \% 10$ at $95 ; 20$ at $90 ; 20$ at 95 es 100 . Stna-50 at \$10.
Hartford- 30 at $\$ 13$.
COSO STOCK:
Jasephine-20 at $\$ 20 ; 10$ at $223 / 2 ; 60$ at $22 \frac{1}{3} ; 10$ at $25 ; ~ \$ 1$ at 25. Wiliow springs-10 at $\$ 25 . \quad$ Coso-3 at 15.
COPPER
Napolcon-50 at $\$ 30 ; 50$ at 34 to 45.

## Stoeks in Virginis City.

Corrceted by Wientassn \& Mitcoel for the Virginia City Union. Tho follow mg stueks, are in tho market in Virginia City, and held a the prices annexed:

|  | erican Basin Co........... 2000 |
| :---: | :---: |
| Lat Crohso........... . . . . . . . . 2500 | Hawkeyc................... 2000 |
| simht fe . . . . . . . . . . . . . . . . 2500 | Cousolidited Celar Hirl....... \& 00 |
| Empirc....................... 500 | Ut.14. . . . . . . . . . . . . . . . . . . . 4000 |
| smuta Lita.................... 3500 | Industrious..................... 500 |
| меВея ....................... $\downarrow$ ขб 00 | North Amerscan.............. 500 |
| Zouave ....................... . . 500 | I'hiladelphia,.................. 200 |
| Belvitere . . . . . . . . . . . . . . . . 1500 | Sigel.......................... 200 |
| Yırk.......................... 400 | Virgluin....................... 500 |
| Goveruer Nye ................. 700 | Commervial .................. 400 |
| Buйiс........................ 2000 | Uncle Sam . . . . . . . . . . . . . . . . 300 |
| Peyton. | Bloominglale.................. 600 |
| 上йцаш | Cule . ....................... 20 20 |
| E1Dorath...................... 4750 | Goldes Eagie................. 1000 |
| Summit. . . . . . . . . . . . . . . . . . 600 | Deeatur....................... . 500 |
| Wushiogtou Ledst............ 600 | Atchison . . . . . . . . . . . . . . . . 15000 |
| Miton ........................ . 100 .. | Comet (simpsou's Pirk)...... 5000 |
| Cedar Hill Tunmel............ 500 | Mohegan ..................... 6 b 00 |
| Hazel Grean................... 600 | Gulden Era................... 1000 |
| Eureka. . . . . . . . . . . . . . . . . . . 2500 | Uscuola. . . . . . . . . . . . . . . . . . . 10.00 |
| Laburiug . . . . . . . . . . . . . . . . 1100 | Marlisou |
| Sweery ....................... in io. | U. S. Tumbe |
| CıJedouia . . . . . . . . . . . . . . . . . 10.00 | Sacramento |
| \$t. George................... . 400 | Harrison Co., Geller Ledge.... 400 |
| Mary Ann..................... 2500 | Movarch . . . . . . . . . . . . . . . . . 20 |
| Alriatic...................... 200 | Irving......................... 15 |
| Guldull frite .................. 500 | Batu Ea |
| U. S. Miuing Cumpany ....... 500 | Orneutal. |
| Evening Star, (Argen tine Dis't) 30 .. | Union Minng C'u ............. 13 |
| Daytou Comynny ............ 10 .. | Empire Company (sprmg Val) 25 |
| Muntercy Co. (sjuing Valley.) 20 | Ballimore Amerlcan........... 25 |

## NEVADA COUNTY STOCK REPORT.

[Complad frgas tee nevada Demociat.]
In consequence of the snow and late stormy weather, but little has been done the past week in the ray of prospecting. When the snow has passed away, operations that have been temporarily suapended wilt be again re-
sumed. There appears to be no abatement of the copper excitement. and sumed. There appears to be no abstemout of the copper excitement, and
new leads are coustuntly being discovered. An extonsive copper lead ruuaing through Perrin's Ranch, on Woll Creek, has lately been brought into notice. The lead bas been taken up for a distance of $14, \mathbf{0} 00$ fect, and three rifferent companies are now engaged in prospectiog it. The leals are usually praspected by organiziug a cooprany of from twenty to sixty shares, and levying an assessment of from ons to two dollars on each. Whare the leads are so situated that they can bo opened by sinking shaftse or running tunacls, thus avoiding the expense of a steam pump, tho cost $0^{-}$ prospecting does not exccod one or two handrel dollars.
ally be ascertained whether the ore wilf pay for workiag, at a trriliug ex pease. Wo hear of no sales worthy of note.

## Goid Quariz Mining Compants.


opher Compantis.

## Continsli.kat Hagarlurh.

Haganturn
Telegraph
Birikeye
G

Chumpion ( 100 feel)

Asked
ASKED

Two fect of Pride of Washoo suld at $\$ 15$ per font ; 19 feet Birdsall at 20. A fuw other truasuctions have been made to day, in uutside stocks, at low

New Discorpriss,-Now discoveries havo been made East of Eumboldt, which, atcerding to reports are marvelously rich. If they are ans thing tiko what is renorted, we shall hear more from them soon. We are not given to sensation stems aud prefer to be a little behiad time, rather than to give ourrency to uare liable reports.

Sobscribe. - Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz miniag. The same amount of practical information, important to miners and mechanics, which is contaiued in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real jadustry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dullcrs for six months, and become patrons of the only mining paper printed on the Pa-
cific coast. Those who receive a paper with this naragrinh cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual enstom to receive a subscriber for less than
six months; but inasmuch as we are anxions to introduce six months; but inasmuch as we are anxions to introduce
the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant read er of it for even that short period.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign countries. Four patents-American, English, French and Belgian-will secure an inventor exclusive monoply to his discovery among one handred millions of the most intelligent people io the world.

The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained through the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Govern ment, we obtain patents in Great Britain, Frunce, Belgium,
Prussia, Austria, Spain, etei,; with promptness and disPrussia, Austria, Spain, ete., with promptness and dis-
patch. Models are not required in any European country, bat the utmost care and exper ence
the specifications and drawingse
Whe specifications and drawingse intend to tak out foreign patents, engrarings should not be published uatil the foreign applications bave been made.
Caution.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against beeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust
their cases to the care of a competent, reliable agent at home.

While it is true of Most Euronean conntries that the system of examination is not so rigid as that practived in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors in order that they may stand the test of a searching legal ex: amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before be will except the title.

It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors sbould beware of speculators, whether in the guise of pateot agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.

Our Mint, its Rules, Charges and Operations.
For parting silver from gold when gold
is below $300-1000$ ths. fine..........'. ..... . 3cts per oz. from $300-1000$ ths. to $750-1000$ ths fine. 7cts Depostts Silver Bralion--Purctiasets.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contrined for coinage.

Refining charges (only where gold is contained) proportion of goid I to 300 , 3cts. per oz. gross weight

$\$ 16-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross
alue of silver for making bars; also when gold is contained $1 / 2$ value of silver for making bars; also when gold is contained $1 / 6$
per ct. on gross value of gold for coining. Refining charges as per ct. on gros

Bars Sold Fron Refinery.
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Drpostred for Dollars.
$\$ 16-4-11$ ths. per standarl oz. 1, per ct. gross value for coining, when

Deposited for Tmported Bars.
\$1 16-4-11ths. cents per staudard oz. $1 / 2$ per ct. gross

CORNS AND BUNIONS REMOTED.
DR. BTRON C. KENNEDY, practical Chiropodist late of Philadelphia, would most respectfully inform the citizens of San Francisco that he has opened his office at No. 12 Montgomery street, opposite the Lick House, where he is prepared to remove ail excresences, such as Corns, Bupions, Inverted Nails, Enlarged Joints, Swelled Insteps, Frosted
Feet, Ohilblains, Callosities, and all diseases of the Feet, withont pain or inconvenience to the patient.
Dr. Kennedy also attends to Ganglion, or Scorbutic Ul cers, and all otlier diseases of the Skin. He may be consulted at his office, No. 12 Montgomery street, opposite the Lick House, from 9 to 12 A. M., and 2 to 6 p. M. Having devoted six years of study to this important, but too much
neglected, branch of human knowledge, and having studied neglected, branch of human knowledge, and having studied Philadelphia, and having made this branch of surgical science my specia!ity for nine years, enables me to operate skilfully aud successfully. In England, Frauce and Austria the highest prizes are often awarded to practitioners in this branch of surgical science, and it occupies with others an equally lotly position in the profession.
Voizin is an illustrious example, a shining light, among the philosophical stars of Europe, and Dr, Byron O. Kennedy has fully equaled him in this country, as a proof of which the Faculty of the University College of Philadelphia, Pa.
Dr. Kennedy has bent his earnest
Dr. Kennedy has bent his earnest attention to the cure of these diseases, in which he has become so great an expert
that be is now regarded as the leader in this country, in this branch of the profession, throughout the United States.
The following letter, which emphatically speaks for itself, was written by
Dr. Brow C. Kexseny: Dear Sir-Learning that you are going to thlk
your departure for calfornia, and wishing to infornu the citizeus of lhaila





THE EYES! THE EYES!! THE EYES!/!

## DR. E. H. PARDEE,

Oculist and Aurist to the San Froncisco Deaf, Dumb
and Blind Asylum.

After a protracted blindness of wore than five years. Dr PARDFFE has made himself thoroughly and scientifically acquainted with all diseases of the Eye, and is now practic-
ing with a success that cannot be surpassed in the Enited States; and as proot' of this he substantiates by many case now in California that have been cured ly him, after having exhausted the skill of the eminent physicians and oculists of New York city, Boston and Philadelpha.
From an extensive practical koonledge years, Dr. Pardee asserts, and is prepared to prove, that there has been more blindness from bad aud imrroper treat ment than from disease itself-how can it be otherwise when we take into consideration the effects of the old hacknied course of local treatment lhat patients undergo-Caustic to-day and Bluestone to-morrow-more painul than death, daily presenting themselves with chronic cases, and on in
quing what bad beeu formerly done, the almost invariable reply is, "I had my eyes burncd with caustic or bluesfone;" I was bled and blistered, then cupped two or three times a werk-had a blue pill prescribed for me at night, and salt in the morning-was ordered in a dark room-to keep my
eyes tightly bandaged -to avoid the open air and exercise, with fifty other inconsistencies, the aggregate of which is sure hlindness. Patipnts should be careful and not place their eyes at the mercies of a man who docs nothing lut burn them daily. not investigating the circumstances of eac particular case, but ignorantly and blindy adopting and fol
lowing theories the most erroneous, and destructive to the lowing theories the most erroneous, and destructive to the
eye. How much more rational and consisient to consalt al experienced Oculist, who thoroughly understands every disease of this tender organ in all its aspects and varieties. Dr. daily superrision, aod. with but very few cases, they have all been treated by other physicians hefore applying to him-and all to no benefit. Those who are doubt ful are permitted to call at Dr. Pardee's office and confer with the many patients forenoon. The Dr. has a large and only assortment of Artificial Fyes on this coast, inserted, haviog all the movements of the real eye, and that they lork so life-like that no one can
tell them, when properly inserted, from the real eye. These eyes are sold reasonable.

All the operations performed, such as "Strabismus," or cross-eyes "Cataracts"-or removal of the Lens loy absolption or extraction;-" Plerygium," or fleshy membranes grow ing orer the eyes. Artificial Pupils, \&e.

OFFICE:-Clay street, above the Plaza-opposite Plaz
aug14.

## Dr. Van Zandt,

Consulting Physician and Surgoon, OFFICE:
Corner of Washington and Snnsome Streets.
The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases

THAT THIS PRINCIPLE, successfully applicd to diseased states by physicians to aid their medicinea in overcuming orgsimic and fonctiong derangements of the haman borty It in a part of the great priuciple of vi-
tulity known as nervous tufluence and necessarily must have much to do in tulity known as nervous miluence and necessarily must
obyoting disensed action.
Too Much Cannot Be Said

## In its praise; for it is highly probable that in health there is an exact equi- librium of the ElECTRIC principe; and should this secret and hidelee equi- poise of health be broken or lowered should the body be negatively elec

 poise of health be broken or lowered-should the body bo negatively elec.trified when it should bo positively charged-is tol the current broken, and is thure not a war of forces going on in nur system? This needs correcting
and the order that the tissues of the body should be susceptible to remedia
agents we must first restore and
Awaken the Magnetic Life Within. Us.
The spinal and sympathetic nerve systems. Beleving as I do most firmly
in this great magnetic or electrical intensity of the earth, with its infuenco in this great magnetic or electrical intensity of the earth, with its infuenco
upou our boulies in health and disease, I am led to take codrantage of tho come to all.
No Compromise with Disease.
Give the body strength, aud naturo will relieve herself. Purify the life
bloon, reader the stomach, liver, hitart, kidney and all the naturas functhons aetwe by EIECTRWA1, excitatom, and at once the aged, the palsied, the nervons, the diapiritell, the molaucholic, the dyspectic
revivo under its berngn miluence.
To the Ladies of Cnlifornia.






## dieq which have soloug Bafled the Skill of Physicians.






$\mathrm{D}_{1}^{\mathrm{K}}$
 value of deposit for making bars.

## LOWER CALTFORNLA

Colonization and Mining Company. The noents sknt to mexrco by

125,000 Acres OF RICH AGRICULIURAL LAND,

## and a valuabla stlver Mine,



## SPLENDID ENTERPRISE.


NO TME SHOLLD BE LOST BY COLONISTS.

## Farmors Minera and Mchanict,

Whth familios are particolarly lavited by the authorttios oftbe Territury. The lave selcectet, in point uf for tility of soil, in not oxeculled on the Cuntiouat. Tho ctimate is unaurpassod in the world. The richest Silver
3fiues known to ox ist in tho Territory aro la the Immedt. Sious known to exlst in tho Territory aro la tho mmedt
ate vicinty and bordoring on the agricultural lands of the Coloty 5 .
N. B. Bear in mind that a sharo ensta, at presont, on1y 8200 , which ontitles the holiter to free trausporta toon for self, family, and artict's of persomal use uad an equal share fil the tand, the Company's Silver Sfine, ete the whole enterprise, being for the mutudn bonofit of
members only.
Full information can be had, and Mineral and cotton Specimens seen, by applyting at the Otllee of tho Compa Dy, North-west corver of Clay and Front Stroot.

## bOARD OF TRUSTEES.

A. G. RAVDALL, President.
CAFTVIVH BELL $V$. President.
 Committoe on survey, E. Re. Reasmes, Spocial Agent ;
Capt. R. C. ANDREW3, Surveyor.

RASCHE \& SONS, 131 Montgouery st., bet. Bush \& Sutter, wholesale and retail dealers in Pianos, Sheet Music ifalian stringe,
And Instruments of ell kinds. Also,
Sole agents for the colebruted manufacturers,
A. A. GALE \& CO., New Yorle;
C. MEYER, Philadelphia.
T. GILBEKT, Boston;

Whose Pianos they have always on hand, for sale ot ren

## planos for rent.

New Music receiued by every steamer. New Mussic
published. Mnaic assortod and bound in the best style. pullished. Mraxic adsortod and bound in the best style. Ausic.

## WASHOE

Stock Exchange,
N. W. cor. Montgomery \& Merchant ats. SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and soll Washoo, Esmeralda and other Mining
Stncks and Securities.

## DEVOE \& COS, <br> STHAM ENGINE MACHINE ${ }_{\text {Corner Market }}^{\text {AND }}$ WORKS,

A GINEDS SAF MACHNERYY, SUCH AS STEAM EN.
 AND SCREW-BOLT Cutting
AGRCTHURAL MACHNERY made and repaired.
no Duphicute parts of Threshing and Reaping no. Duphichte parts or Threshing and Reaping
Manhines and Threshing Teeth made to order,
on the inost reasonahte terms. Steam Emgines andi Boilers constantly on
hand nud for gine hand, nud for salecheap. Serew-Gutting and Turing
DEVOE \&
Lathos for sale.

Attention! Attention!
$\Lambda^{\text {TRACT OF LAND, EMBRACING AN AREA OF }} 400$ $\Lambda^{T}$

is mure buutiful than any nther ever offored property
market, and the locations is such that it must in the tuamarket, aud tis location is such that it must in the un-
tural pruseran of Improvement suon bo in great tleuaud for places of resilence. That this property will iucreas
1u value, is as certuits as the futuro of sau Francirco. If ratue, is as cercuita as the future of sau Francifco.
Investmenta in Real Fatnte, it is well known, have
puid ashargely as any uthor, and inaurance ugainat riak puid aslargely as any othor, and insarance againat riak
of daprecution in value is secared by the sure and rapid increane of our population.
Invest in Reai Espate, ind youl will find it moro profta-
ble than investing in wild-cut mining stock, or loaning Whe than investing in wild-cut mining stock, or loaning
money that may bo gaid in depreciated currency. The prices for lots in the above tract will remain uni-
form until nfter the holidaym-that ls, without iatereet. The title to the lanal is purfect.

## HARVEY S. BROWN,

 No. 10 Naglee's Building.Lithographic Mapa can be seol and had at tho nbov anmed oflice.

## A. ROMAN \& Co.,

Book Establishment

## 418 and

 SAN FRANCISCO.Orders rospeetfully solicited and promptly attenảer to. Treatise on Metalhurgy, Compriging Mining and Gen-
eral and Particular Metallurgical Operations, Etc. Etc. By Freduricts Overman.
A Manuil of Metallurgy, or A Practical Treatise on the
Chomsatry of Motals.
orranda for the Use of the Mine Agont and Smeiter.
By James Phillips and John Darliogton.
tanual of Metallurgy, more particularly of the precious
metals; but includ ing such others as are employed Piggot on the Chamistry and Mining of Copper. Practical Mineral Assaying and Miniug, Overman. Gold Mining and Assaying; by Phiips,
Miuers' Companion and Guide, compiled by Silversmith Miuers' Companion ant Guide, compiled by Silversmith.
Assayers' Guide; or Practical directious to Assayerz, MiAssayers' Guide; or Practical dir
ners and Smelters.
Practical Assaying by
Practical Assaying, by Michell.
ilver orres and Silver Mines, by Pro. Blake.
Wror Ores and Siver Mibes, by Pro. Blake.
Ure's Dietionary of Arts, Manuzactures and Mines.
Weisbach's Mecinanics of Machinery Weisbach's Mecinanics of Machinery and Eagineeriog
Novillo's Hydraulic Formula Tables. Nevilio's Hydraulic Formula Tables.
Fresetins' Chemien I Analysis. Fresenins' Chemien Analysis.
Together with manyoiner wo
and similar lines
. Books imported to order on short notice. A. ROMAN \& Co.

417 \& 419 Montoromerv Street.

READ THIS/
COAL OIL EXPLUSION--ON SATURDAY EVENING, Street House in pouring coal oil from one can to another his wife impradeatly approached with a lighted candle
and the vil exploded. Mrs. Brewster's arms were badly
ald burued, as were also the husband's barms wero badly
ho succeeded in mastering the faracs, and proventing wo succeeded in mastering tio famics, and prove
worse consequences - [Evening Bulletio, Aug. 4 .

## THEN THIS।

Comet Illumitating Oil!
Manufactured expressiy for Stanford Bro.
Brand of Kerosene
Is warranted free from Camphene, Petruleum, or any
BEST FAMILY OIL IN THE MARKEFE. STANFORD BROTHERS,
$\therefore:$ Nnas. 121,123 and 126 callferenia stre

3ur $\mathfrak{B e a f t h t u r g}$ furl errinder.
Erfinber, meldue nidit mit ber englifdien Sprache betaunt pimb, tizurn ifre Mitthungeneil in ber beutidifen Spradie madicn
Slizzenbon ©rfiniungen mit tirzen, beutlidg) geidriebenen Beidfreibungen beliebe man zu aborefiitert ant.

Gird's Budding Knife.
$T$ He attiniton of farmers, horticulvorists

 State, Territory and workahop rights for salo at rea

sep.ism
(Ageat for Patentee)
San Framcisco.

The Occidental Hotel
is Now
Open for the Reception of Grests.

THES ROUSE FAS ALL THE MONERN MPROVEG-
 been nited up with special rufercucc w the comfort
couvouience of the publio generally, having a

News Stand, OABINET FOR MINERALS;

A Branoh Telegraph office, connceting with all the lines throughouthe co
LEWIS LRLAND \& CO.,
San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC!! MUSIC!!!

## A. KOHLER,

IMPORTER OF EYERX DESCRIPTION OF Musical Instruments \& Musical Merchandise SHEET MUSIO \& MTSTCAL BOOKS. GENUINE ROMAN STRINGS, \&e.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradburx's Overstrung Pianos. RANK AS THE FIRST AND BEST Ingtone, delicacy of touch and durability. All the leading Musicians of the country have
testified to their superiority.
A. KOHLERR, Agent for the Pacinc Coast.

MELODEONS AND HARMONIUMS,
from the celebrated manofactory of
MASON \& HAMLIN, Warranted superior to all others.
T3. Send for a catalogue and Price list.
A. KOHLER, Agont.

## To Mill Owners.

Wamtro, by a person fully competeut to the position, arituation ng Mining Surernirgndent in a Gold or Coppor
Mine. The Applicant was eogaged for about eight years Mine. The Applicant was ebgaged for about eight years
na Supermetencint of Copper Mining Works in Cornwall,
 Stato for the past seven years. He has liad much expe-
rience, in Cornwall, as an Assaycr, ${ }_{l}^{\text {a Machinest, }}$ Ore. He can give ample testimonies as to his capacity
On and for the poritiou he seeks.
Apply at tbis Office.

PHILADELPHIA BREWERY,
Second St;corner of Folsom, San Francisco
Helscher, \& Wieland Proprietors.
 ment our many friends and patrons that the aboye
well know Brewery has beena permanenly located in our new premises, on socoud stireet- the former resi-
dence of Capt. Folsona where whe shall endeavor to condence of Capt. Finsone where we shall endeavor to con-
tinue in furnishing our numerous patrons with the beat
artiele of "Bier." We shall strive to arlicle of "Bier." We shall strive to perpetuate the
good reputation for promptitudo and the faithtuit exeevo
lion ot orders as heretofore, sud therey

## W. T. \& J. GARRATT,

 Gity Brass and Bell Founders Cor. Firat \& Market gts., San FranciseB abbet mietal castings, ILRE ENGINES, FORCE rn and Hand Bells and Gongs, Hoso and all other 'oints
 COUPLING SOINIS OF ALL, suzes. Manufacturers of "Gcan $\frac{\text { ratt's Patent Improved Journal Metal.' }}{\text { F.G. B E P E R }}$

Practical Coppersmith No. 118 (Old No. 22) Eush street,

Whilst thankful for the firmer conidence bestowe upon mo, I dosire to say that I am reany to nakke and ine of business : especially all kitads of apparatus used Brewerien and Distilleries; also, all such as are use
where stam, spirits, or pumps of any kind be required Also, Kitchen utensils for Hotels, Restanurants and priFate houses. Baking apparatus for Bakers and
tioners, as well as all other sinds of copper work All orders from the country promptly attonded to.

FREDERICK KESMODEL, Cutler \& Surgical Instrument Maker, BIV KEARNY STREET,

## san franctico,

$\mathrm{P}^{\text {ECEITED a diploma at the Fhir of the Mechaures' In- }}$ 1861 sor culliforniantumer, 1868, also it sacramentio The atteution of these allicted with HERNIA, or Rup of of titing and adapiting Trusses to the different cuse Itis a well kbewn fact that thero has an yet ween no ays which have uroven good in many cases difereat sty Which havo proven good in many cases, but they are
wherertains and caunot be $r$ lied on und fil sey are altogether uscless. The following are koure of the others: First-The Pad is formed on the parts to bo
bo conspressed by taking a planter censt. Secund-Having deslrable materiad, such as horn, ivory, etc. Third-The Pad is ko adjusted to the apring that no mowement of the body will move or displace it. There are many other advantages. Examine nnd judge for yourselves.
FREDElRICK KGSMUDEL ap8 1 f
Inventor and Yateute


## LABOR-SAVING <br> Rock Drilling Machine,

TO ENGINEERS, RALLROAD CONTRACTORS, TURNand Ageut for GARDNER'S PATENTS, will continue to

> HAND, HORSE, AND

STEAM-POWER MACHINES.
The Hand Machines are expressly adapted for working
in Tumnols, Gallorios, otc. opo man parformiog the lain Tunnols, Gallorios, otce, Dion man performiag the labor of three in the ordinary Way,
A FOUR HORSE POWER MACHINE, operated by one man, drives a manehine canababe of drinting a four to so six
inch diameter hole in grapito four foet dees, and in hard imeatone, six loet per hiour-the ravidity of the work eing limited only by the durability of the steel drill. Satisfactory reforence will be given as to the prac.-
tical working of the machille and itn entiro success in reducing the rost of drilling holes to onetenth of the for mer expense, and on a rock excrvation of auy extent,
from afty to seventy-five por cent. on tho entiro work. Rosponsible partios who have rock excavations to maske and guaranteo to perform the work required, at a saying of at least twenty-five por cent. over any other process. Adaress orders © WM. W. DUNN, Fremont street, bet. Market and Mission, San Francisco.

## LIATEST IMPROVEMENT

in Ladies' Buckles.
$\mathbf{M}^{\text {R. reicher, respctrully announces to the }}$ dealers in Jowolry, that he has made mportant improveore made. Their sitoplicity, commodiousness, and benuty render them the most userul as well as ornamental trinke1s.
Orders trom the country respectfully golicited. For or address, FREDERIK REICBE
Yanufacturing Jewolor, Manufacturing Jewolor,
620 Merchant street, Sau Fraucisco.

## REMOVAL.

 ing enlarged our Works at North Beach, wo are cold rock par day Gold and Silver or
versmithas sweepsings reduced or purchnsed copper or Sileash, for OBES-Higheat market rates advanced in
ror shipraents. S. C. BRADSHAW, Agent,
318 California street, near Sansome, up stairs.

## WRIGHTS PICKS,

JOHN WRIGET, of Sacramento, has estabished numself in San Francisco for the manufacture of every
doscription of I ICKS, of the best material, at reduced prices. PIck Exes of the best iron furnished in any quan lity, at low rates Orders from the country promptly attended to. N. B. - None genuine unless stamped with

## FULTON FOUNDRY \& IRON WORKS

## HINOKLEY \& CO.,

MANUFACTURERS OF STEAM ENGNES,
Quartz, Flour and Saw Mills; Cast ron
Fronts for Buildings, Mining Pumps,
and all kinds of Machinery

## Nos. 47 \& 49 First Street,

Between Market and Mission, San Francisco.
ALL kiads of Iron and Brass Castings furnished at
hort notice. Every style of fis ishing to Iron when cabt
Repairing to Machinery ceatly done Pateru Making in Repairing to Macbunery neatly done Pateru Making in yarious forms.

$$
\begin{aligned}
& \text { my namo. JOHN WRIGET, } \\
& \text { Opposite Battery, Sank Francisco. }
\end{aligned}
$$ D. B. Hinoldey, Wm. E. Worth. Wm A. Eteld 1

OFFICE OF ORHIR SILVER MKNING CO., San Francisco, Fub. 6th 1863.-A dividend on the capital stock of this Company has been declared, payacapital stock of this company he master transfer books will be
ble on and ble on and after the 9th inst. The trans.
closed from this date un til the 9th inst.
fele 6
N. K. Masten, Secretary pro tem.
P. M. S. CO.

DAC IFIC MAIL STEAMSHIF COMPANY'S Poad with the steamers of the Ailantic and Pacifie road with the steamers of the At
Stoamship Compray at Aspinwall.

## FOR PANAMA.

The following Steamships will be diepatebed in the month of February, 1863.

$$
\begin{aligned}
& \begin{array}{l}
\text { February 1st, Steamer Sonoxa. } \\
\text { " Ilh } \% \text { Constituilion. }
\end{array} \\
& \text { s. 21st of St. Louis. }
\end{aligned}
$$

Will leave Folsom Streat Wharf, with Passengers and Treasure, for Panama
at 9 O'CLOCK, A. M., PUNCTUALII, And connect, via Panama Railroad, at Aspinwall, with teamships for New York.
For Freiglt or passage, appiy to

## A. B. FORBES, Agent.

304 Corner of Sacramento and LeidesdorIt sts.

TO THE CLOCK TRADE.
$W^{\text {E Have RECEIVED, }}$ pex RECENT fle fine assortment of the of CLIPpers, a fino assortment of the
NEW HAVEN COMPANY'S, (FORMERLY JEROME)
CLOCKS
Coroprising all the Desirable Stylcs. [Also a Iarge Lot of

## Fancy Time Pieces

of New and beautiful patterns.
We sball in future be in receipt of safficient quantities
of tbe above goode to supply our largely inereased trade. HAYNFS \& LAWTON, Agents N. H. Clock Co.
Nos. 516 aad 518 Sausome st., cor. Merchant, ja. 26 uf Nos, 516 and 518 Sausome st, cor. Merchaut, $\begin{gathered}\text { Sau Francibco. }\end{gathered}$

## SQUARZA'S PUNCH.

FTRST PREMIUM at the sacramento agricoliural state farr FOR 1862.
ALSO ; FIRST PREMIUM
At the San Francisco Bay District Agrieultural Fair, 1862 Mantactory, wholesate afd retal,
No. 44 Leidsdolf street,
Opposite the What Cleer Houso, San Franciaco.

## V. SQUARZA'S

Punch Factory.
 and similar productions, asmanufactured by him. We distilling science, hence the celebrity of his articles. He has two establishments for the sale of his famous Puach Whe on Leidesdorff, the other on Montgomerys streetWhich are constanty thronged with our bon vivants,
The following is a litt of bis liquors, all of which we have tasted, and And them the most delicious and harm-
less beverages in this city, being pure, and unaduteraless beverages in this eity, being pure, and unadultera-
ted with drugs or other jujurious chemieals ted with drugs or other jujurious chere, anals:
Rum Punch,
Strawberry


PEOPLE'S
Steamship Line! CONNEC'I'ING

## CALIFORNIA AND NEW YORK, via nicaragea.

750 nulee shoo tor tann any other noute?
Tho Fast and Favorite Double Engine Steamship,
MOSES TAYLOR,
E. Howes Will be dispntchéd
San Juan del Sur, From Mission street Wharf,
WEDNESDAY, - - MARCH 11. 1863. Connecting at GREITOWN with the Splendid Ster maship
HLLINO1S.............................. 8500 Tong.
Reduced rates of Passage and quick trips are secured
by the re-opening of the Nicaragua Route. by the re opening of the Nicaragua Route.
and safety, and every efort will be made to insure the ann sufety, and every e
comfort of passengers
For further informa
For further information apply to
a20 No. 407 Washingtun Street, opp. Post Office.

## DONAHUE'S

Union Iron and Brass Foundry,
Corner of First and Miseon Stremts, San Francisco.
The First Established in the State.


LEWIS COFFEY AND RISDON,
 The only oxclusively Boiler Making Establishment on
the Pacifc Coast Owued aud conducted by Practiral the Pacige Const Owued aud conducted by Practiral
Builer Makers. All orders for New Work, the repairing Builer Makers. All orders for New Work, the repairiug
of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets. Opposite Oriental Hotol, San Francisen, Cal.
LEWIS COFFEY N. RISDUs.

GREAT REDUCTION in prioes.
STANFORD BROTHERS, 121, 123 and 125 California Street

Keep the Largest Stock of all Kinds of
Lamp Stock
And will sell chenper than any other House in this state
Lanrs, Chinneys,
Wicrs, Camparne,
Buraing Fluid,
Aicomol, Coal, On,
Turpentine, Kerosrne Om,
COMET ILLUMITATING OIL,
Sperm Oif, Lard Ont,
Machinery Of,
Rafe Seed Oil,
Cuina Nut On,
Polar Oil,
Linseed Orf, Raw and Boiled,
Sharis Olf,
Neate Foot Or,
Tanners Orl, Etc.
Our customers in particular, and the country trade gencrally, are renquestcd to ascer tiaiu our prices before pur-
chasing from traveliug ageute, as wo will soll at loss chasing from traveliag agoutr, as wo will gell at less
antes than they can afford to.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel,
THE SINPLE, COMPACT, STRONG AND
effective maluer in which it is applied to any height of fall, ( 3 feet to 300 , and to any Lind of rachinery, will Save in Transportation Material and Iabor, from
25 to 60 pper cent. of the entire cost of the
Structure to which it is applied, and proportionally increase its vaiue.
For full information from the Jnventor, apply at the Miners' Foundry, trom 10 to 11 A . ar., or address
J. M. BETLI.

Miners' Foundry, San Fraccisco.
Wen This Wheel is fully gearantred. Jauje-tr

## Holiday Presents!

WATCHES,
DIAMONDS,
JEWELRY AND
SILVER WARE,
AT
BRAVERMAN \& LEVY'S, cal Wasmington street,
We cail the attention of our frienns and JEWELRY AND SILVER WARE,
Of the latest and Most Fushiouablo styles, which we have received by the last Steamer. Arso,

FRENCH CLOCKS ,
PREOIOUS STONES, Which we are selling, SET or UNsET, at the very LOWEST PRICRS.

BRAYERMAN \& LEVY,
Dec 201 m No. 6.21 Washiugho $S^{4}$ reot,
Faciog Blaguiro's Opera House.

LEANDER RANSOM, Civil Engineer and
SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, and the public
surveys of the State of California for 7 years. ALSO
state locating agent.
And as such having the sale of 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in eash and the balance on a credit of seyeral years. OFFICE : Second foor of Express Building, N. E. cor per or Montgomery and Caliordia sureets. oct.3m

## Agency For Patents,

HRE UNDERETGNED having been long catablushed in
the Patent Agency Business, and haviug faverable the Patent Agency Business, and haviug favorable nt the Patuat Onice in Washingtou, offor their services for tho securing of Caveats aud Patents also, will at
ton to the sales of Patent Rights, und to aill manters ton to the sales of Patent Rights, und to all matters WETHERED \& TJFFANY, Ofice, 410 Montgomery strect.
Charlifs r. bond, (Iate City and County Assessor.)
REALESTATEAGENT,
No. 410 Montgomery street, San Francisco. REAL ESTATE PURCGASED AND SOLD, AND LOANS NEGOTIATED.
For Sale Cheap!
A Horizontal STHGABF ENGING OTF A 4. Horse Power, Flue Botmer, in excellent order, original cost. Apply to JULIUS SIIVERSMITH,

Federal Building, cor. Battery and Washington $S$

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Rond, Islais Creek,
Clear golid bearing sulphurets workme at


 mill owners. No power yor clean water required for
he purnose. he purnose.

SQUARZA'S PUNCH. HOME MANUFACTORT.
wholfsaliz and retail,
No. 44 Ledesdorff St, near Sacramento. Brabel at 408 Moutzonery street.

## JULIUS SILVERSMITH,

Commissioner for Nevada Territory,
OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington streets.,
$\mathrm{W}^{\mathrm{E}}$ Whould Respectaulir solicit From those who have busiuess relationswith the above nam-
ed Territory, a shave of their pstrunage ic all mathers re-
 ing of testimpuy, elc.

JAMES PHELAN, (Lhts J. \& M. Phelas.) IMPORTER AND JOBBER,
Wines; Liquors, Etcy Eters Nos. 616 \& 618 Front street, Between Jnckson and Paoific Streetg, Sin Fruxcisco.
Establisied 1849.

All Goods Guaranteed. Orders Solicited. termis hiberal.

THEODOR KALLENBERG,
Maker of Models FOR INVENTORS.
 $\mathbf{M}_{\text {stamp }}$ Stamps, Dles and Die sitiking, Embosaingsitamps.
Repairing of Muchioery promptly atteuded to. No. 4 Samsome street, corner Market, $\xrightarrow{\text { au7. } 3 \mathrm{~mm} \text { ) }}$

PALMER, HANSCOMB \& 00 ;
GOLDEN BTATE FOUNDRX AND MACHINE WORKS.
Firat Street, near Market, San Francisco,
$\mathrm{R}^{\text {ESPECTHULLY SLICTIS ORDERS for all kinds of }}$ $\mathrm{R}^{\text {MACHNERY, for Mining and othor purposes }}$ Please sead Plans and Specifications.
Having che inost complete arrangements and appoint-
monts for fivishingand executing any and all kinds of Castiags and Mehiuery on this Cazast.
sing Francisco, November 29, 1862 .

## 60 lbs Marine and

Fire-Proof Paint,
M Works in this city tor IIulls and deck of of Vessels Mrom ground in this city, for Ifulsals Rud Deelk of Vessels, from ground Mineral Ruck contains Arsenic, Copper, ck
tharge and six oller Minerals. When used on the Decks or Bottoms of Ships, it is equal to a cont of Stoue, and quite equal to Copper, no worms will ever effiect it, and cheaper tban any othcr paint.

DIRECTIONS :
For Decks of Shyss, use two parts Mineral Paint, one part White Lead, mixwith Linseed Oil.
For Bottoms of Veseels, use one parit ground sulphur, three parts 2 lineral I'sint, mix with Coal Tar and apply it hot. for sale by allSbip Chandlers and Tradermen, in boxe of 50 Itb. cach, or by the Pacific Metallurgical Works.

25 POUNDS FIRE-PROOF PAINT.
When used on Rooff, Baildings, or Fencep, it is equal or covoring then with, a coat of stone, being perfectily ire Proof, and coastiog loss than any paint.

DIRECTIONS :
HOUSE:-Mix thr ce parts Mineral Paiat wlih one par crive lead, thin with Linesed oil: if a lighter color is ROOF:-Five parts of Mineral Paint, one part white Leau; mix will Libeced oil. Put it thiek on a tin Roof as one coat when properly appliednul. hast three years.
G. T. Forgex, Superintendent.
WORKS, Nortla Beach ; Office, 318 California sto, Snn Francisco.


A JOURNAL OF MINING, AGRICULTURE, MANUFAOTURES, SCIENCE, ART, CHEMISTRY, INVENTIONS, ETC.
VOL. VI. SAN FRANCISCO, MONDAY, FEBRUARY 23. 1863. NO. 17.

## RANKIN'S IMPROVED SCHOOL DESE.

By the arrangement represented in the accompanying cut, two or more School Deaks are connected by a longitudinal beam or board, and frraly held together. The following advantages are claimed for this arrangement

1. The series of Desk thus formed atand very firm on the floor, without bein in any manner fastened to it.
2. They cau be removed at pleasure by adults, in a few minutes, with little or no expense.
3. They present fewer obstacles to the use of the broom than any desk in use.
4. They furnish mach less occasion for noise than other school desks, by presenting less surface for the feet to stike against.
b. They are superior also to other Desks, in regard to the convenience of getting in and out of them with ease.
5. The arrangment of the book-shelf, (as ceen in the front desk in the cat, where the writing board is broken array) by which a separate place is provided for the slate and atlas, and less room allowed for miscellaneous articles, has been found by experience to be a great conkenience. It saves noise and promotes neatness.
6. In appearance they are, neat and when properly made, even elegant.
7. The central longitudinal beam separates the two acholars in each desk, thus giving to the arrangement one of the principal advantages claimed for single desks.
8. They are simple in construction, and easily made "at home" by any good workman; put together with screws, can be taken apart and boxed.
9. They can be more easily adapted to particular tastes and circumstances, as regards height of seat and writing board, inclination of the seat and back, ete., than any that are supported by castings.
10. They are in general firmer and more durable than desks that require to be fastened to the floor by screws or nails.
11. They are much cheaper than any other good deskcosting, ordinarily, not more than one half as much.

That these statements are true, must be apparent to teachera and others who have had much experience in using and furnishing echool rooms ; and if they are true, it is equally plain that the advantages obrained by this arrangement are very great, and that it has good claims to the notice and favor of all who may desire to assist in improving the appearance of our school rooms, and promoting the comfort of pupils and teachers.

The desks, or the right to use this invention, will be furni:hed on very favorable terms on application to

Warren Holt,
305 Montgomery street, San Francisco.
Large Captral.-The Great Western Railway (Eugluad) is about amalgamating with two other companies, when the whole capital will pe $\$ 210,000,000$.


TEEW AND IMPROVED SCHOOX DESK. patented febreary 18, 1862, by J. S. pankin.
trust that they will sink deeper, so that it may become known whether we have our lodes running deep or not in that section of the State.
T'o the South of this claim, ground has been taken up in the name of the Oak Hill Mining Company. They are sinking a shaft here at a distance of about 500 feet from Dr. Newton's shaft, but as yet they have not struck any copper indications.
In the immediate neighborhood of this last mine there are two others sinking down upon the same indications. They are named Rutledge, and Doty claims The first shaft is the best workmanship that I saw in this camp. The Duty boys are working in very hard ground, but now and then the mundic contains specimens

NOTES ON THE COPPER MINES OF AMADOR
There are three distinct veins running through this. seetion of the country. The first is about three miles from Ione Oity, in the direction of Jackson, running in a Northernly and Soutberaly direction: According to reports thase veins or ledges as they are called, continue their course from Oopperopolis through Campo Seco and down to Clarksville in El Dorado. Some time ago I visited the two last celebrated mining eamps. But my knowledge of tha geology of the country, would scarcely allow me to come to the conclusion that in Amador County they have the exact ledges that are running through Calaveras County. But of this I am certain, that along the whole of this distance, the ground is taiken up for copper mining, and in many places a very considerable amount of work has been done. But very few, however, have been so successtul as to strike the copperbearing rock; still they have strong faith that they will soon do so, and no amount of dollars would induce them to give op their claims.
The first mining camp that I visited was that of Dr. New ton. He has out at his mine about 100 tons of fine ore. On this claim considerable amonnt of work has already been done; they have sunk down until they have arrived to the depth of about 170 feet. At the depth of about 90 reet they were so fortunate as to strike the copper-bearing lode, which was twelve inches in width, and down along the whole depth they have had moderately good ore. Sometimes the lode would seem a little less, but in a little while it would agrein swell out to eighteen or twenty inches. On descending the shaft I observed that in some places it had a width of two feet six inches. At the bottom of the shaft they have now two feet aine inches on one side and two feet on the other, of moderately good shipping ore. It will be observed from the above that this company have got a lode of
copper for the depth of about eighty. feet. Rather than give an opinion of the value of the above mine I let it speak for itself. It is evident that this mine is capable of being worked on a very extersive scale, if properly managed.
of copper pyrites that would assay some

## 10 or 12 per cent. of copper.

Having heard some time ago that there was considerable excitement toward Jackson, I resolved to visit this place; bot I could not find that any rock presented to me contained any indications of a copper lode. I was told that the whole belt of the country was taken up for five miles, for copper. I was on some of the ground, but did not see anything attracting to my eye.
The next district I visited was the one known as the "Horse Creek" district. There they have sunk about forty feet. The indications which induced them to strike bere were some green carbonate and silicate of copper cropping out. They have met with but very little success as yet. In one or two places, while sinking, they came upon some boulders of quartz, containing bunches of copper pyrites. I visited two more copper claims still in a southernly direction. They are respectively called the Reed Mining Co. and the Boulder Hill Mining Co.
On the other vein, called the Hornblend lead, about half a mile in the direction of Jackson, there are several claims taken up; but very few with any success. In oneinstance they say they have the sure thing, having struck good indications of a silver lode, the rock giving, they protest, all the acid tests of silver, viz. : dissolving in nitric acid, decanting the clear liquid-a copious white precipitate was formed, which precipitate was the teroxide of antimony and not chloride of silver. I found that several parties had fallen into the same error. Some time, Mr. Ebrror, in a future number, I will give you a few hints on the fallacy of the chloride of sodium put for silver.
The Randall is another claim which also promises to be a good mine. They have sunk here some twenty or forty feet and are now on a thick vein of mundic, containing considerable sulphurets of antimony and copper Some of the specimens I took up would as-ay about four or five per cent. in copper. They have to fight hard with the water at the bottom.
From here I went some miles in the direction of the Cossumnes River. I came to a Ranch called Stanley's Ranch. Here a fair company had been organized and had taken up
some 2,000 feet upon a ledge. The out croppings on this lead bring heavg masses of hydrated peroxide of iron containing small quautities of the green carbonate of copper. Several c aims had been taken up upou this leadboth in a northernly aud southernly direction. I visited two of the northeraly extensions, called Groat \& Walker Claim, and the Cussumnes River Clain. Both of these claims promise to turn out well. I saw some very rich specimens of the red oxide of copper and also some silicate of copper, reported to have been obtained from a claim on the extension of the Consumes River clain. There must have been considerable quantities of it, since. wherever I would go, nearly all the way from this place to Sacrauento, I found specimens of the same kind, all being reported as brought from the above mine.
There is also considerable excitement about copper ore in the neighborhood of Rich Bar. The copper here is the sulphuret very much mixed with quartz. The ore is of a very fine quality, but of very little value, as it is too much mixed with gavgue-probably the ore may concentrate as they sink down. About six miles from this place is a town called Puckerville. Claims have been taken up here, also on Gregg's Ranch. On one claim they have sunk down about six feet and have struck a very strong vein of mundic; but the mundic does not contain the smallest piece of copper

Thus ended my visit to the Amador copper mines.
If you travel along the hills, wherever you see a rock you will also find a notice that it is claimed as copper grouud. Should two per cent. of the taken up claims prove to contain copper in working quantity, Araador will soon become one of the richest copper mining countries in the world.

## IMPROVED SCHOOL DESKS.

We would call attention to the representation, on our firat page, of an improved School Desk, recently patented by J. S. Rankin. The enumeration ot its advantages, given in immediate connection with the illustration, fully sets forth its superiority over any other description of Desks in use. We have also seen testimonials of its great utility, signed by all the leading School Officials and Teachers in this city; also from the numerous prominent Teachers and others engaged in Educational interests in the Eastern States, where this Desk is being very generally introduced. County School Superintendents and School Trustees throughout the State should give this new School Desk a careful consideration. Its advantages in every point of view must be apparent to every one who will carefully examine it. Rights to construct the same can be obtained on reasonable terms by addressing Warren Howx, No. 305, Montgomery Street, San Francisco.

The "Notes on the Copper Mines of Amador County," which will be found apon our first page, were prapared by one of the most thoroughly practical Mineralogists in the State. We have the promise of further communications from the same gentleman-Notes upon other Copper Mines, and some practical articles on assaying and ore tests, which will be found, very valuable to the miner, and prospector.

Ctass in Ceemistry and Assaylvg.-By reference to a card in our advertising columns, it will be noticed that a gentleman of this city proposes to open a class for iustruction in Chemistry and Assaying. The gentleman is a man most emiaently qualified for taking charge of such a class, having had long experience as a practical Assayer and Chemist.

A rare opportunity is here presented for persons engaged in' or contemplating any counection with mining enterprises to acquaint themselves thoroughly with a knowledge of minerals and their resulting metals.

Map or Sinaloa.-We have received from Henry Payot No. Washington Street, a finely executed Map of Sinaloa, Mexico. Sinaloa is located immediately be'ow the State of Sonora, its Western boundary resting upon the Gulf of California and its Eastern extending just beyond the Coast Range of Mountains, some 35 or 40 miles inland. These mountains are highly metaliferous, and contain a great number of abandoned Mines which are now being reopened with great encouragement of future success. Parties interested in that section, or desirous to become acquainted with it, should provide themselves with a copy of this valuable Map.

## MINING EDUCATION

In the leading article of our issue of the 9th inst. we introduced an extract from a paper communicated to the Casiformia Mining Journal, some three years since, and entitled "The Advantages of an Extended Knowledge of Mineralogy to the California Miner," by M. Attwood, Esq., of Grass- Valley, wherein the writer expressed his belief, founded upon scientific duta, that importaut discoveries in other metals than gold, would soon be made on this Coast. The discovery of silver, soon afterward, an the Eastern Slope, and subsequently in various portions of this State, added to the still more recent, and wouderful discoveries of copper, have most remarkably verified the correctaess of his prediction, and afforded additional evidence of the value of science in the mines. Since the issue aforesaid our attention has been called to a communication in the Sacramento Uuion, under date of Nov. 2, 1859, in which the writer quotes a portion of a private letter written by Mr. Attwood, a short time previous, giving the result of his observations while on a visit to the Ophir Mine. We give the extract:
I did not make as careful and clnse an examination of the ground abore the rein as I could have rished; indeed, from the confusion existing, and from one formation passing into another, to work out the geology properly would require time. The course of the vein appears to be a few degrees west of magnetic north, dipping westward at an angle of about forty-aight degrees, bud the dip being a fulse one, you may not sink far before it will change. T'o the westward of the vein, and at no great distance, is a large 'dike vein,' (the upper quartz ledge I mentioned in my correspondence) [now known as the "Virginia Ledge"-Ed. Press| the direction of which is parallel with your veiu, but the inclination or dip, contrary, or to the eastward, ss that your veiu might continue its present dip westward till intersected by the Dyke vein. The formation adjacent to the vein is a partially decomposed felspathic pophyry.
Mr. Attwood is a mining engineer and mineralogist, and thoroughly acquainted with every department of mining engineering. His knowledge in this department of seience enabled him to agria predict the existence of a fact in 50 gard to the Ophir mine, burried several hundred feet beneath thie deepest opening at that time made, and one directly contrary to every surrounding indication when considered by an unscientific mind. Without any hesitation, he wrote at a time when the mine had only been opened to a depth of about 15 feet: "The dip [of the vein] being a false one, you may not sinle far before it will change." Since that date, upward of three years have passed away and the workmen in the Ophir mine have gone down to the depth of 210 feet and demonstrated the exact trath of what the application of science to an undeveloped mine had foretold. It is now known that the Ophir mine which dipped at the surface about 48 degrees to the West, has in less than 200 feet changed its dip to about 60 degrees East. In other words its present dip at the lowest point reached is nearly at right angles with its dip at the surface. This change in the angle of the dip has caused the extraordinary dilated appearance of the vein in the middle and lower galleries.
Had the Ophir Company at the outset of thir worl determined to sink a shaft, say 500 feet deep through which to work their mine, and employed a man not thoroughly skilled as a mining Engineer, to locate the same, he would most undoubtedly have been governed by surface indications and located the shaft at a point, from which at the required depth of 500 feet he would have found himself several hundred feet distant from the vein after arriving at the point where he expected to intersect it, and constantly increasing that distance as he progressed downward. Thousands of dollars are annually thrown away by the miners of California from the lack of proper engineering knowledge in this very matter of locating shafts and tomnels. Millions of dollars have been thus uselessly expended in the English mines, and it was not until quite recently, and after the most earnest appeals of scientific men to mining adventarers in that country, and a presentation of the convincing facts of cuormous losses proven to have arisen from a lack of proper mining knowledge, that the adventurers could be induced to employ competent and properly educated men as mining engineers. As late as $1836, \$ 50,000$ was expended in sinking a single shaft for coal, near Northampton, $a^{2}$ a point where even the most superficial knowledge of the dip of the strata, would have proved the impossibility of success. The first shaft
suak at the Haswell colliery by. inexperienced adventurers was abandoned alter axpending $\$ 300,000$. A scientific surrey subsequently pointed out the true locality for "ainking, when the work was recommenced and resulted in a com plete success at a trifling cost, in comparison with the first attempt. Numerous other particular instances involving perhaps less pecuniary losses than those above enumerated might be poiated out, which have proved equally- barren of results, from this some persistency in ignoring tho utility of of a proper edncation, on the part of those entrusted with mining engineering.
California, or rather the Pacific Slope, is just entering upon a fystem of mining erterprise, which in extent and value will soon vastly exceed that of any other portion of the globe; and the question is certainly a most pertinent one whether we shall call to our aid the collective experience and wisdom of the past to assist us in the enterprise, or whether we shall go on, as we thus far have done, and still insist in hindly incurring the heaviest pecuuiary penalties for the want of adequate geological and mineralogical knowledge, T'he merchants and capitalists of San Francisco, who do not own a dime in any miniag enterprise are deeply interest ed in this question, from the fact that the more successful we are in our mining operations, the more rapidly will they extend, and in the same ratio build up this city and increase the value of our trade and trafic and our investments in real estate.
You who are venturing your hundreds or thousands of dollars in the various mining operations of the day are most deeply interested in the question. Are you willing to in trust operations in which your capital is involved, to incompetent hands? Would you not, rather, while we are yet in the infancy of mining operations, contribute something from the State's revenne, if necessary, to prepare those upon whom the future direction of our mines are to devolve, for a proper management of them? We may get along passably well with the few competent men we now have among us, perhaps for three or:four years, or until we can establish a proper Mining School and send out a class of graduates who will be fully able to undertake the management of such mines, as are growing more and more complicated in their characteristics and developments, and, as a consequence, all the more in need of experienced and skilful men to take them in charge.
It is our intention to still continue the discression of the important question of Mining Education, and in fature numbers, we shall endeavor to lay before our readers, some practical plans for the establishment of schools where the science of mining-practical as well as theoretical-may be taught.

It would afford us pleasure to bring these facts to the at-1 tention of our Legislators, bat the inclination of the legislative wisdom of the State seems to be turned to other channels than a study of our great leading interest-at least, it is so, if we are to judge them by the selectiun of newspaporial reading furnished by the State's liberality, in which the only exclusively mining press in our State has been almost eif tirely ignored. In this great matter of State interest, orie of more vital importance to the commonwealth than any other which is likely to come before the Legislature during the balance of its session, not a single paper except the Press, has yet uttered a word. We intend to send a few copies to the Legislature gratis, while we are dissussing this matter, hoping they may be received kindly, even if the subject to which we desire to call their particular atitention may not be considered of sufficient importance for Legislative ac tion.

## WASHOE MINING CASES.

The following Mining Cases now pending before the First District Court, in Nevada Territory are set for trial as fol

Feb. 20-Calilornia Co. vs. Charles Anderson et als
Mar. 10-Robert R. Moss vs. Grould \& Curry Gold ani Silver Mining Company.
Feb. 27-Frank Perkins vs. Sierra Nevada Mining Co
Mar. 12-Cbollar Silver Mining Company vs. D. S. 'Tur
er.

Mar. 6-La Crosse Mining Company vs. Burning Moscor
Mining Company.

## MINING AND SCIENTIFIC PRESS.

 his head in another colume, wa put in type we have noticd an asticle in the Evening Bullefin, showing that the nost cred table dengre of industry has beren materested hy he members of the survey in pro ereuting the work comtmit ind to thoir charge. Survegs have alraaly heen mule in all lu. counties of the state hit seven. The publication of the Reports and Maps how in ustate of great forwardness, cannot be made until the proper appre priations are made therefor 20,000 is now due the Surwer for moneys already nppropriated, lut not paill for lack of fuuds. The field work during he last year has been carried on by Mr. Whituey at his own ndividual expense and there is now due him $\$ 15,000$ for uch services. Tho Duelletin sixys:-
The time when the first anmual report should have been farle was at the meuturg of the Locrishature last year, but the Act was then amenderl, and Mr. Whitney authorized to fombine lis first and secoud reports into one, and lay the ame thefore the present Legrishture, and $\$ 3,000$ wits a pproriated for publishiner 1,000 copies of the said reports. Ow-
to the vacum in the State 'Trensury, however, so fur as
eeting the reguirements of publishing the geal gical suroy wa : concernerl, not a dullar of the above approprintion as yot heon receivel by Mr. Whitney; consequently there ill be no reports this year.
We trust that the couclusion of the Bulletin may prove correct. The matter will soon come before the Legislaure, and it is to be hoped that body will devise some means o spread before the people the valuable facts collected by he Survey.
Improyrd Stanit Bohler.-Joseph Harrison, Esq., of hiladelphia, has recently invented and patented a steam viler, which, it is said, is commanding high favor among ngineers. Mr. H. was a partner of the Winans Brothers, Baltimore, in their contract with the Russian Govern nent fur keeping in repair the great railroad from St . Pewsburgh to Muscow. He is now in Europe, whither he as been called by several skillful mechanics with the view the iatroduction of his patent boiler on that continent.

## SAN TRANCISCO MINING NOTICES.

## ASSESSMENTS LETIED.

Assessments upon Mining Stock have beeu levied as fol
Caledouia G. \& S. M. Co. levied an assessment, Feb. I f 50 cents per share, payable immediately. Sale ol deliuent stock will be made March Tth.
Moss G. \& S. M. Co.-An assessment of 50 cents per hare was leviud. Jan. 27, payable at 428, Moutgomery St. r to the Superintendent at the mine.
White Cloud G. \& S. M. Co. levied an assessment o 5 cents per share, Jan. 27, payable to the Secretary, at 28, Montgonery s't.
Warren G, \& S. Mining Co.-An assessment of 75 cts share was levied Jan. 26, payable to the Supt., at Viagia City, or to the Sec., 428 , Moutgonery st.
Warren G. \& S. M. Co.-An assessment of 50 cents er share was levied Jon. 27, payable to the Sec. in this ci$y$ or to the Supt. at the mine.
El Dorado G. \& S. M. Oo.-An assessment of One Dol ar per share was levied Jan. 23, payable to the Sec. or to he Supt.
Gaudaloupe S. M. Co.-An assessment af $\$ 30$ per share Gaudaloupe S. M. Co.-An assessment
vas levied, payable ou or before March 1st.
El Tesora Mining Co.-An assessment of \$11\% was leved Jan. 27, payable at office on or befora Feb. 27.
Polar Star G. \& S. M. No. levied an assessment f 50 cents per share, February 4th, payable ou $r$ before the 4th of March, at the Uffice in this city or o the Superinteudent at the mine in Aurora, (Ésmeralda.)
Dios Padre G. \& S. M. Co. Ievied an assessment of 3 dollars per share, Jan: 31, payable in 30 dayss, alsu an assessment of 2 dollars per share, payable in 60 days, at office 502 Montgromery street.
Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.
Sonora Mining Co.-An assessment of 25 cents per shave was levied,Jan 23, payable immediately.
Overman Mining Co.-25 cents per foot, Jan. 29, payable within ten days.
Chs. Caney Miving Oo, - 50 cents per share, Jan. 2I, payable on or before Feb. 20th.
Adriatic.- Fifty cents per share, payable at No. 4 Armory Hall, San Francisco, or to the Superintendent at the Mine.

Ihattie G. A. S. M. ('o.-Thirty cents per share, hevied Jan. 31, payable at Onfee in San Francisco, or at tho Mine. Hala if Noreoo-s-Anansment of Ten Dollars per Share hevied Jan : :3-payable at the Uthice in this citg, or dulmsike, at the Mine, un or lefure Felo. 2s.
Sierrat. M. Co. An Assessment ofミ!! was levied Jan. $2 \because-$ payahle immediately, at Ulfice 575 Jission St.
Mount Davireon Co.-An Assessment of 50 cents per Share was levied. Jan. 23. jriyable on or before March ist at Ufice 47 Muntromery bluck.
Mina I'rietas S. M. Co.-An Assessment of Five Dollars per Share was levied, Jan. 31, payablle ou or bufore Marcl Sth-at Ofice, cor. Montgumery \& Jackson Sits.
Recorder Mining Co.-An Assessment of One Dollar per foot was levied Jan. 19, payable half on or before Feb. 18, and Ualanea on or befure Marcls 20.

Hale \& Norcross S. M. Co have levied an assessment of 5 per share payable on or before Jan. 26tb.
Martin White.-An assessmeat of 20 cts. a share was evied, Jau. 2.
Orieutul G. \& S. M. Co.-An assessment of 50 cts per share was levied. Jan. 14. payable at Office, cor. Sutton Arenue aud C St., Virginia C'ity.

Bultimore America Consolidated.-Anassessment of 50 cents per share was levied, Jan. 5.
Savage.- $\Delta \mathrm{n}$ assesswent of $\$ 35$ cents per share was leved, Jan. 7.
Hawley.-An assessment of 25 cts. per share was levied Jan. 5, payable in 30 days.
Cole S. M. Co.-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. I.
United States M. Co.-An assessment of six and twothirds ets. per share was levied Jan. 10, 1863, payable to the uperintendent at the mine, or to the Secretary, Rooms and 8, Government House, San Fraacisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15—payable Feb. 18.
Lady Bryan.-An assessment of 70 cts . was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.
Red, Wate and Bute G. \& S. M. Co. levied an assessment of 25 c ats per share, payahle on or before Feb. 1st, office cor. Pine and Montgomery Sts.
Mina Prieta S. M. Co.-An assessment of $\$ 10$ per share was levied, Dec. 26, 1862-payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.

## ASEESSMENT SALES.

Sales of Stock for non-payment of assessments are advertised to bo sold as follows :-
North Potoci Mining Co.-Sales delicquent stock will be made March 17.
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be made March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Co., 327, Montgomery St., San Francisco, on the 25th of February.
Combination G. \& S. Mining Co.-Sale by E. S. Spear \& Co., at 433 California St., on the 10th day of March next.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholder's will be sold at auction for assessments, at No. 400 , Montgomery steet, on Jan. 27.

Desert Mining Co.-Shares of delinquent stockholders will be sold at auction, fur assessmrnts, at No. 400, Montgomery street, Jan. 27

## general notices.

Caution.-D. M. Tyrell warns persons arainst purchasing certain 10 feet of ground in the Wellington Co., standins in the name of J. B. Magree-also 20 feet, standing in name of W. Williams. (See Territorial Enterprise.)

Ashland Co.-I. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ashland Co. is forbidden to extract any valuable metals.

Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Henry Martin G. \& S. M. Co.-"Thomas Wallace, Trustee." gives notice that whereas certain parties illegally claimtee. gives to be Trustees of this Company, have changed the name of the Corporation to the North Star G. \& S. M. Co., and illegally elected officers for the same, the public are cautioned against such acts, etc.

The Swmasy Co., (iold Hill, give notice that Paltic Company have wrongfuly clamed and norked their ground since July, 1860.
(Thak Vumarey Rock (oo., lying next weat of the Tirpinia Co. clains have notifind the 1lazd liretn. 'l ingley and Dach di l'axton ('onmange that they are tresparsing upon the Chimaty liock Cós gromad.

## ESMERALDA MINING NOTICES.

Tue Zencma Lode Comicans, give notice that they chaim 2 fupenior title to the Johneon Co.. cluming the same ground, so far us said luenlities conflict. This ground is a jortion of that now held by the Company known as the Wide West Company. The notice is signed by A. Wi addell, J. U. Dorsey, S. P. Dors y and James Elder,

Ore Tests.- Several inquiries have been made to us of the different chemical tests that will discover graces of silver and copper in the rock. If our friends who are conversant with this matter will forward information respecting such chemical tests to us, we will be hapny to gire them publicity. [Amador Ledger.

Persons interested in the above wi!l find the desired information, and much more in the same connection, all valuable to copper and silver prosnectors, in late-yumbers of this paper. A remittance of six months or a years subscription to the Mining and Sorentific Press, will afford them all the valuable information obtainable from books in relation to prospection for cither silver or copper, and assaying and testing ores of the same. The dissenination of that class of information is the speciality to which this paper is devoted, and no mineral prospector in the silver and copper regions of California can invest $\$ 4$ to better advantage than by seuding the same to this office and becoming a subscriber and reader of the Press. We shall be extremely happy to receive the names of all who may favor us with cash patronage. We also pledge ourselves at the expiration of the year to refund to any party double the amount of his subscription, who may honestly think he has not got the worth of his money in valuable information from our columns.

## MINING AND SCIENTIFIC PRESS.

## THE ONLT MINING, MECHANICL AND SCHENTIEIC Pareir on this contynent.

THIRD YEAR: VOLUME VI.-NEW SERIES!
A uew volume of this extensively circulated paper commenced Sept. II, 1802. It is intended that every number shall be replete with information
concerning Minint, scientific, Meclinuical und Industrual pursuits, together concerning Mining, scientifice, Mechanical and Industrul pursuits, togethrer
wifl seperal origiual engraviugs, of new iuyentions, etco, propared ©xpressly for ita columms.
This paper is devotell to the above purposes, thgethor with the interests of Science, Arts, Agriculture and Cumamerce, and any gelieral information that may be of intersst to the reader : and it is the intentiou of the proprietor to spare no pains or expeuse in makiug it equal in juterest and valuablo

## The Mining Interest /

Will find it of great ralue, as it will contain all the newe appertaining to Mining, the prices and sales of Mining Stncks, new inventions of Machiucry adapted to that purpore, and of everythag gencrally that may be of service to the Miner.

## The Inventor 1

Will end it an excellent medium for the parpose of bringing his invention into aotice, of ascertaining the progress of invention in this and othor
countries, and also of recriving any information that maty be necessary countries, and also of receiving any information that maty be necessary Patent Agent, togother with fucilities a ain Patunts with dispatel.

## The Mechanic and Manufucturer \$

Will be greatly benefited by its perusnl, as cach number will contnn aoveral origrail engracings of now maxclitues aud inventlows, togethur wilu a large anonit of reading taater apper tainmg thereto. We are constantly receividg the best scientidic journals from all quartere, from whieh we
sianll continuo to extract whatever maty be of Wenefit or interest to our shall cont
reuders.

To Chemists, Architects, Millwrights and Farmers !
This journul will be invaluable. All now discoverics in Chemistry will be givou, and a large amount of iuformation of great service to Architects and
Millwrights will be found in our columns. The Farmers aud Hlaiters will Millwrights will be fuud io our columns. The Farmers nud Flauturs will
oot bo neglected, engriviugs will be given of agricultural implements, and the farming interest gonerally will be amply discussed.

Torms.

## Club Ratcs.

Five Copics for Six Monthb, $\begin{gathered}\text { Clib } \\ \text { S8. }\end{gathered}$
Five Coppiss for Six Months, $\$ 8$.
Ten Copies for Six Montbs, $\$ 16$.
Ten Copies for Twelvo Mouths, $\$ 30$.
Ten Copies for Twolvo Months, $\$ 30$.
Fifteen Copief for Twelve Montus,
Fifteen Copies for Twe Tve Montss, $\$ 44$.
Twenty Copres for Twelvc Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subserintion is only $\$ 280$ Nimes cau bo sent in at aifient tuouss and trond differeut Post-offices

## EWER \& SMLTH, Pablishers,

Room 27, (Formerly) U. S Court Bnilling, Corner of Washiagton and Bat.

# 杽位ing and Scicntific 

W．B．EWER，
EDITOR
MONDAY EVENING．
FEBRUART 23， 1863.
The MNING AND SCIENTIFIC PRESS is published at the Fxclatuge Buldiag，Roun 27，conner oi Buttiry und Waskington streets sian Fraw C．W．M．SMITH and W．B．EWER，－；．．．．－Proprietors


To Printers．
An Interest in one of the most fournshing and best paying Newspa per Offices in the mountains is nffered for sale no easy terms． A rare op
lishing bim portunity is hereby preseuted to any printer desirous of entablishing bim self in a good bosiness in one of the healthiest，most thriving and delight ful mo

MINING－T．EGITIMATE，SPECULATIVE AND SENSA TIONAL．

Under the most favorable circumstances，and under the best and most legitimate management，mining for the pre cious metals，including copper，must be essentially specula－ tive．No amount of knowledge，either theoretic or practi－ cal，or even the most judicious combination of the two，can at all times tell us where the ore is；indeed we can only ap－ proximately know where it is not，beyond actual exploration We can only say，in view of any contemplated operation， ＂there is a strong probability that there is a rich miue here or there－or there is bat little prospect that oue will be found in this or that locality．＂The very nature of the busiues renders it specalative．

## legitimate mining．

Ordinary miniog adventure，to be legitimate，should be kept within certain recognized limits．Notwithstanding the great uncertainty necessarily attendant upon all mining un－ dertakings there are，however，certain principles accepted －the resalts of the experience of ages－which，although they may be without the limit of perfect scientific deffini－ tion，and consequently subject to no fixed laws like legiti mate commereial transactions，still they are capable of con－ stant application，and，when judiciously applied will approx－ imate mining adventure very nearly within the limits of cer tainty．Legitimate mining can no more be held responsi－ ble for the failure attendant upon anskilled or speculative operations，than can legitimate mercantile transactions for the wild and disastrons operations of visionary specalators．
Mining，however，being，as we have already stated，neces－ sarily speculative ；in isolated operations，of course，those who adventure，if reasonable men，will be prepared to in－ cur oceasional losses，where they bad most confidently 1 ok－ ed for the fullest success．Taking，however，the class of le gitimate operations in any given district，as a whole，the re sult will aniformly show very large balances of profit It is in consequence of this very fact that mining everywhere be comes such a froitful field of speculation．Brilliant mining successes can find no parallel，in their ratio of profit，in any other industrial pursuit．
Of course the chances or prospects of any proposed ad－ venture must be，to a certain extent，a matter of mere arbi－ trary opinion，and upon which even those most competen to judge must be expected to differ．In a matter where mere opinion enters so largely，and where the limits of probable success are so incapable of deffinition，it is natural，that even the most careful adventurer should often involuntarily slide into a grade of

## speculative mining．

Speculative mining may be represented as a＂sliding scale＂of operations graduated all the way，from a nearly legitimate undertaking to one eatirely devoid of principle， and so reckless in its character as to render absolutely crim－ inal anyattempt to enice into it an outside or not thor oughly posted party．This is the class of operations most detrimental，in its general results，to legitimate mıning，and the one which involves issues of the highest importance to
the growth of all mining enterprise．Speculative mining， of the most uncertain character，is ofteu opeuly entered up－ on in good fa th，by the adventurers，ia respons－to the mor－ bid gambling propensiti．s so deeply eugrafted iu human na－ ture，everywhere．This reckless class of miuing，although it may be conducted openly and fairly，with a full disclosure of the vastly preponderaling chances against success，is nev－ ertheless，most peraicious in its tendency－the brilliant suc－ cesses now and then attending it，operating like the leading prizes in lottery schemes to iuduce thousands to invest their last dollar in a＂chance，＂hoping that＂luck＂may favor them for once．
Speculative mining also includes that peculiar class of op－ erations which are gotten up like Peter Piuder＇s Rasors－ to＂sell．＂These mines are usually merely nominal in char－ acter．They sometimes have a locality on some wild cat ＂extension，＂sometimes not，in which latter case they are purely ：peculative，with a mere paper existence－nothing more，nothing less－just sufficient to give the concern a le－ gal existence upon the record．Such things always have， and always will exist，so long as legitimate mining affords a basis for such illegitimate operations．Operators，sellers and buyers in such stocks are to be classed with thimble riggers and the＇r dupes．Honest m．a will not engage in them．Intelligent men cannot beduped by such shallow pretences．It will be a long time ere the world will be pur－ ged of villians or fools．

## ＂sensation＂mines．

A new class of bogus miniug has come into note，which has been most aptly termed＂sensational mines．＂To manage well a sensational mine requires considerable tact and judg－ ment．It must also have a certain extent of substantial ba－ sis on which to be＂managed．＂The mive is usually a piet－ ty good one，and one which，if its mineral value should be ks pt within proper bounds would be a productive one to work．But the＂sensational＂operator has no idea of work－ ing his mine－not at all．He has struck a＂good thing．＂ His knowledge of mining assures him that it is but a＂pock－ et＂or＂chimney＂or mere chance and limited deposit of some kind．His purpose is not to sell a mere worthless thing tor a large sum of money－but to sell a＂good thing＂ for five or six times what it is worth．Having decided upon his＂base of operations，＂the sensational operator begins by calling attention to his wonderfal＂discovery，＂which to the judgment of the inexperienced outzider does really appear most wonderful．Such being the case there is no difficuly in obtaiuing favolable reports，from even very reepectable ageuts．By the various means of puffing，exhibiting speci－ mens，etc．，an excitement is easily gutten up and daily in－ creased as the number of buyers is angmented；each new purchaser becomes in turn elated with his fortuaate speca－ lation，until the shrewd originator of the scheme has got rid of all his stock．Of course when a working company has been fairly organized and active operations，commenced at the mine，the bubble bursts．
Under the head of Sensational Mining should also be ranked the＂Bulling＂and＂Bearing＂operations so common among Brokers and others in every unportant community， where stock operations occupy auything like a pruminent position in business transactions．Instead of aeting simply as brokers and advising their clients to buy or sell in what－ ever they cons der advisable within the range of mining ad－ venture，it has become a nut unfrequent practice among this generally useful class of mea to combine together in cliques for the purpose of working up to＂sensational＂prices certain stocks，for speculative purposes．We fear that such trans－ actions are not altogether unknown on Montgomery Street．The facility with which this may be done is well known to the＂initiated．＂Perhaps this class of sensational operations is as frequently resorted to as any other，and rarely fuils of being successful，when properly managed． This evil is not of recent growth．Both here and in Enrope it has been a source of heary and grevious injory to legiti－ mate mining operations．Evils of the various characters which we have passed in brief review are unayoidable in any mining community；but however much they may effect iddividuals they should never be clarged to the account of regular operations．Mining as an investment，when confin－ ed within its legitimate limits，will show quite as large bal－ ances of profit as any other business，and as a source of na－ tional wealth and strength is secood to no other industrial tional
pursuit．

## THE STATE GEOLOGICAL SURVEY．

We understand that a determined effort is to be made in the present $L$ gislature to deleat the anamal appropriation for the contimuance of the important work of the State Geo－ lugical Survey．As an evident feeler in this direction wo notice a communication in the Evening Bulletin，of Wednes day last，complaining of the apparent inaction of the com－ mission，and more than intimating that no practical results are to be derived therefrom．The writer may be honest in his conclusions，but if so，he is evidently misinformed as to the magnitude of the work before the Commission，and the time required to collect and classify the observations，in suctr a manner as to bring out the practical information sought for in its establishment．Considering the influences under which Goverument appointments are asually made，the invar riable system of favoritism which almost universally obtains we have reasons for believing that the State has been most fortunate in securing the services of the eminent gentlemari who stauds at the bead of the Commission．By general ac－ cordance of the scientific world Mr．Warrington Smyth， of England，and J．D．Whirner of the California Survey， rank respectively，as first and second，among living men iil the particular sphere of practical geolngy－especially as ap－ $p$ ied to mines and mining．The State of California will take a most un＇ortunate step backward if it fails to continue， to a complete issue，the work which we believe has been so systematically commenced by Mr．Whitney．Oar people and the Legislature may rely upon it，no irritating system of derrogation，or dread of being charged with dillatoriness，or ＂theorising，＂will deter this gentleman，so long as he holds the position to which he has been assisgned，from proceeding． with his work in a manner commensurate with the impor tance and intricacy of the undertaking．He will exercise his own judgment as to the time and means proper to be employed in the collection and registration of facts－often of the very least importance when isolated，but，when ary ranged and brought to bear one upon another always den veloping the moit important truths．Without this system of a careful generalization of accumulated facts involving， time as well as study，no real advance can be made in sci－ entific research．Anything short of this would be merels the work of amateurs－unsatisfactory，unreliable，and of no practical value．We have no knowledge of the actual con－ dition of the work at the present time．We found our it ferences of its favorable progress apon the well known practical and scientific reputation of the gentleman at itsi head，and his equally well kuown devotion to his favorits science，and untiring industry in everything which he under－ takes．We have never met the gentleman，or exchanged word with any member of the Commission；but we hav understood from other sources more or less in intimate rele tion with the Commission and fully competent to judge its progress，that a valuable report is now in the hands of th State printer or on its way thither，through the Legislature which will give as full a detail of the labors if the Com mi－sion thas far，as the nature of the work will admit． We understand that the English Government has decide to order an early geological survey of British Columbia If our Legislators should be so penny wise and poand fool ish as to dise ntinue our survey，we would suggest to tha Goverument the propriety of availng themselves of the tal ent and experience which，we in our foolishness，may thrusi aside．Indeed，we anderstand that correspondence to that end has already been unofficially inaugurated by our Britisl neighbors．
It should be borne in mind that if this work is suspendei at its present stage，its re－umption by another Commissio would have to be pretty much de novo；very little aid woulc be derived from the unfinished labor thus far performed And as the work must，in the nature of things be carrie tbrough at no very remote day，it would be well for oû economising Legislators to bear in mind，that，under auc circamstances the money thas far expended would result il very little if anything more than nil．If retrenchment mus be resorted to we would suggest that namerous other an less important matters might be dispensed with．Perhas the Commission，in its present stage，and under our existin condition of present taxation，might be somewhat curtaile in the number of assistants，etc．；but，for the credit of tb State and the furtherance of its chief industrial interest， 1 say nothing of the advancemont of science，we sincere！
trust this important undertaking will not be completely sot uside．Better thougs aro expected of Califurnia．Nature has made heran especial faverite by implanting within her capacious busom treasures the most varied，rich and impor－ tant；and with a jrufusiun nowhere slose to be fund tbrough－ wut her dominiums．We shall be falso to our intereats，fulse to our destivy，and unwruthy the reputation we have thus far furly merited of being the most energetic and progressive community on the globe，if we take such an inglorious step backward．

## GENERAL MLNLNG STOCK REPORT．

## REPORTUE SALES

At the San Franclaco Mining Stock Board， For the weck cuding Hebruary 21,1863 ．

|  |  |
| :---: | :---: |
|  | Total No．Elurs． |
| 11111～1ヘーッー＋61ーールーー |  |
|  |  |
|  | 3onday． |
|  | Tuesday． |
|  | Tedncad |
|  | Thursiay |
| ｜ 1 \＆ | Fridag． |
| 出111 | Satardap． | San Francizco，Fobruary 23th， 1863. stock remarks．

The Mining Market for the wsek just closed has has continued to manj－ fost the fair degree of activity noticed on the weok previous．The disposi－ tion to operate iu second and third class stoeks also contiunes，rad exhibits evou an iacreased earaestress．The constantly increasing interest in，and attendance upon Mining stock Salce，witb the large amount of capital seck－ oporations，whicil cannot fail to oxert a most health frul iufluence upon that
 past week first class stocks have beco almost eutirely ignored，
Opbir has been scarceiy touched－no aales appearing．Wo quote but a single tran saction．
Goutd \＆Curry has plenty of buyors but no sales－not a foot has changed
hands this week． hands this week．
Clollar remains arm at nbout last quotations．Very little stock in the market．We undorstuad that $\$ 000$ is freely ufferod on the street without sellers，although the bids at the Stock Board for the week have varied from $\$ 500$ to $\$ 570$ ，closing at $\$ 525$
$\$ 500$ to $\$ 570$ ，closing at $\$ 525$
Fotosi has improved about $\$ 30$ ．Sacramento has advanced $\$ 20$ ．Both these slocks are in demaud at quetations，with but litto in the market． Burning Mossow has boon quito a favorite during tho weok．It has vanced from $\$ 7 \pm$ in $\$ 710$ ，and closes the week with an upward tendency．
Burninido has also become a sulden favorite in this market，advancing from $\$ 22$ ，on Mooday to $\$ 70$ on Thursday．It contiuued fluctuatiog from that time till Saturasy eveniog when it stood at $\$ 50$ ．The cause of this move－ meut was a tolegraphic dispatech announcoing new and importnat develop－ ments at the mine．
Hount Davideon，which has for along timestood at from \＄to \＄4\％，has takels an upward novement and closed the week at \＄6．Work upon this mino is being very energetleally prosecuted，and still further advances mayy
bo confidently expected，at an early day． bo confidenzly expected，at an oarly day．
Fssermald Stocts still contiouo to claim
Fsamernad Stocrs still continuo to claim a large alhare of attention．The
Wide West bas made a material advauce，going up about $\$ 40$ ，One sale has been made the past weets at $\$ 400$ ，half cash，bulance in 60 days．Other quo－ tations from tbis district remain at about last week＇s figures．
Coso Mysks remain ut aboat last weeks quotations Transastions light． mexican Minss arb but little dealt in．Miua Prieta is quotod at $\$ 135$ ，and Dios Padrae at 340 ．The former of these companies has a very superior of two manths．
The machinery for the Dios Padre，we believe，is now upon the ground and in process of crection．There are many other mines in the vicinity of the alove which we presume will soon be heard of in this market．

Bhang Stooks at Avction，－Jerome Rive \＆Co．sold the following Miniug

 feot La Forge Co． 37 亿先． 50 ft Centerville Co．at 20 c ． 80 shareb Louise，at feot La Forge Co． $371 \leq \mathrm{c}$ ． 50 ft Cen
15 c.
25 feetst Lawreace at 25 c ．

## TRANSACTIONS IN SHARES．

## nevald teikitury．

Ophir－12 at $\$ 2.500$ ．
Chullar－20 at $\$ 570$.
Sierra Nevadu－10at $\$ 77 ; 18$ at 75； 20 at 75． 40 at from （a） 80.
Buruing Moscow－40 at $\$ 75 ; 100$ at $75 ; 40$ at 80 ，br 30 88； 40 ut 85 ，b＇r 30 dy $* 6$ at $80 ; 50$ at $80 ; 48$ at $80 ; 20$ at 86 ，by＇r $30 \mathrm{ds} ; 20$ at 81 ； 9 at $80 ; 44$ at $85 ; 6$ at $82 \frac{1}{2} ; 11$ at $90 ; 20$ at $100 ; 41$ at $100 ;$ quoted by Bates \＆Co．ut $\$ 110$. North Yotosi－25 at $\$ 26 ; 10$ at 27.
Sacrameuto－ 20 at $\$ 50.5$ at $50 ; 5$ at $55 ; 6$ at $60 ; 20$ at 50 Cha＇e Canoy－10 at \＄5 5 ； 10 at 53； 10 at 52.
Savage－5 at $\$ 1,3 \% 0$ ．
Iowa－10 at \＄11テ！́s 5 at 110.
Norton－5 at $\$ 30 ; 10$ at $30 ; 25$ at 35 ．
Nortar Hill Tunuel Co．-50 ut $\$ 5$ ； 51 at $5 ; 50$ at $5 ; 11$ at 5 ．
Cer
Mount Davidson－50 at \＄4； 10 at 6 ．

## esmaralda mithet．

Wide West－5 at $\$ 342 ; 50$ at 345,5 at $360 ; 5$ at $370: 2$ al $370 ; 5$ at $375 ; 5$ at $375 ; 5$ at $377 ; 10$ at 400 ，half cash， bal． 60 days； 5 at 380.
Antelope－10 at $\$ 300$ b＇r 30 ds； 10 at 300； 17 at 295.
Esmeralda－2 at $\$ 50 ; 14$ at $46 ; 10$ at $47 ; 10$ at $47 \frac{1}{2} ; 20$
6； 5 at 49.
Real del Monte－10 at $\$ 36 ; 14$ at $36 ; 30$ at $37 ; 30$ at 39 ；
5 at $40 ; 10$ at $42 ; 5$ at $41 ; 10$ at $391 / 2 ; 10$ at 38 ．
Stua－ 20 at $\$ 10 ; 25$ at $11112 ; 25$ at 12； 10 at 11.
Utah－5 at $\$ 100 ; 16$ at $1021 / 3$ ． 30 ds ． 15 at 40 ．
Josephine－ 25 at $\$ 27 ; 10$ at $201 / 2 ; 5$ at 21.
Coso－20at $517 ; 8$ at $20 ; 10$ at $171 / 2$ ．
W llow Springs－ 10 at $\$ 25$ ．
Gov．Nee－55 at $\$ 41 / 2 ; 35$ at 12 ．
． 20 at $18 ; 19$ at 10 at $121 / 3 ; 20$ at $13 ; 25$ at $13 ; 20$ at at $18 ; 10$ at $19 ; 20$ at 22 ．
Pacific－20 at \＄11； 20 at 12.
Bullion－ 325 in lots at $\$ 25$ ．
Union T＇unnel Co．－10 at $\$ 26$ ．
Union－（Russ District）－ 335 at $\$ 1621 / 2$ ．
Pride of Antelope－ 25 at $\$ 5$ ．Redorder－10 at $\$ 121 / 2$ ．
COPPER STOCKs．
Napoleon Copper Co．-4 at $\$ 40 ; 5$ at 39.

## VIRGINIA CLIE NTOCK LIST．



## WASHOE STOCK REMARKS．

［Compleed yrom thes Dainy Terkitorlal Entbeprise．］ Monday Evening，Feb．9， 1863.
There has been a decided activity in stock to－day．Miniog claims are in demand with an upward tendency，which have heretofore been unsaleable at any price．A discovery－supposed to be silver ore－bas been made at
Steamboat Sprigg．Tive feet of Buchanau，sold to day，at $870 ; 20$ of Un－ ion at 13； 20 of Dunn at $7 \frac{1}{2} ; 10$ of Sacramento at $65 ; 60$ of Wellington re－ ported sold at 20 ．The latter Company has been consolidated with the Easteru Slope Co．，under the name of the Wellington Compan
derstood trat immediate steps will be taken to incorporate．

Tukeday Evening，February 10th．
Allen is enquired for and saleable at from $\$ 40$ to 45 ；Sierra Nevada is in demand af 70．This stock generally finds its way to the San Francisen mar－ ket．But litto is held or offered here，Sacramento is in demand at $\$ 56-$
nume being offered．Utah is offered at 50 without sales．Several Zouave are reported sold at 6 and $6 \%$ ；；there will urobably be some domand bereatter for thin stock，the Company having taken stops to resume opera－ tions on the claim，and also to incorporate．The Hazel Green Company are reported to have struck good rock in the face of their tumael．The Banner
Company are preparing to fucorporate．A new discovery on American Flat Company are preparing to jucorporate．A new discovery on American Flat
is reported，supposed to be rich．Ten leet of Sierra Nevada sold at $70 ; 20$ is reported，supposed to be rich．Teo leet of Sierra Nevada sold at $70 ; 20$
or Duen at $7 ; 10$ of Union at $12 / 2 / 25$ Birdsall at 20；Texas is in demand or loun at 7 ，
at low rates．

Tedngeday Evesing，Fehruary 1th．
There has beee conssiderabto activily in stoeks，to－day，and a largo num－ ber of trausfers bave been made ；but detalls are nut given．

Themasdi Evining，February 12th．
Stocks，to－day，were less netivo than tor severnh day y provious，probbbly
owing to the surnu which raged throughout the day．Few sules weru nusde
 panics bave consoldated their claims，and gled urticles of incorporation uu－ der the name of Bulliou sfiniog Company．Ten feot of this stook sold so－ day at rates unt dusired to be mado public．
There is some enquiry for Zouave；also for Oriental，at low rates，Toxss is in demaudat iow rates： 95 feet nold at $\$ 2$ ．Ten feet of Pride of Washoe sold at $15 ; 5$ feot of Sacrumento for 65 ．Accounts frum this mine are very favorablo for the suceess of the Company．Huzel Green has demand at tow Agures；Birdsall le quiet at 20；Allou Guds buyera at 45；Saota Foo is ofler－ ed at 12\％；Ural is attracting some notice，although no direct bids are made． Sinaloa is offered at $7 \%$ ；tou feet of Dunu sold at $6 \%$

Friday Ekzalivg，Fobraary 18th．
Thesky is again cloadless and the stock trade has shown unvonted ani－ mation today．Our brukers aro largely supplifed with San Francheo orders，many of which are being filled with considerable dificulty．Every－ thing bespeaks extruordiuary activity iu stocks the coming spring and sum mer．Alten is arvancing in favor rapidly，and is io deraand at 860 ；seller aro scarce however at these fecures．Sierra Nevhila is also in request at San Francinco quotations．Bulhon stock is enquirod for at $\$ 20$ per share，but there is little in the market．Texas atill in the market at low figures－$\$ 2$（a） 3．Five inoking ore is shown from the Pride of Washoe．This stock is stil held at $\$ 15$＠20．Burnslde in in market at $\$ 25$ ，and there is oomething of a disposition to deal in it at that price，but no aules aro roported．Milton is offered in emall lote at $\$ 100$ ，but a majority of the holders are awaiting higher bids．The aales reported to．day are， 15 feet of Allen at $\$ 60 ; 10$ fee Bullion at 21， 25 fect Oriental at 5； 10 feet Birdaall at 19\％／5； 30 feet Zouay at 6\％12，and in large demand at that figure．

## Saturday Eveming，February 14th．

The business of the week bas been large，and ahows a decided improve． ment upon the transactions of the last．Stockn to the amount，probably of $\$ 50,000$ or $\$ 75,0 c 0$ have cbanged hands in this market during the past seven dayn，and the brokers are stijl largely supplied with natied orders． Tbe Texas Mining Company was incorporuted to－day，under the Territorial aws，and there ie some activity in the stock； 45 shares sotd at from $\$ 3$ to $\$ 5$ ． There is still some inquiry for Zouave，at a alight advance on yesterday＇s guotations．No visible reason for this activity is discernable．The only sale reported is 20 feot at 750 ．
Yellow Jacket is held at $\$ 225$ ．Very foe ore is being taken from the dis－ puted ledge．Alion is fading buyers at $\$ 60$ ．Bullion is in request at $\$ 20$ ， with Ittle offering．The Oriental is meełfing with purchasers at $\$ 4 @ 85$ ten feat sold at $\$ 5$.

Honday Evening，February 16.
The week opens with a lively demand for atocts，and a large number of transfers have been made to day．Burnside has been the subject of somo excitement，and the market for this stock，whieh nepeaed at $\$ 25$ in the mor niog，reached 75 at 2 o＇clock，then receded a shade，until 6．The cruse o this sudden animation was the exhibition of seme very fow location on Amer claim．Somedine looking ore is fromg shown from a shaw shaft sumk upon a lodge to－ ward which a number of tunnela have been directed for two or three yeirs past．Zouave is in demand from $\$ 9$＠ 10 ，and littte has been offered at those figures．The tendency of this stock is decidedly upward．San Fraucisco cap－ ital is scelsing investment in it to something of an extent．Bullion Bad ready sale at 325 ；Yellow Jacket at $\$ 175$ to 200；Texas at 9；La Crose at 18 （a）29．Ten feet Yellow Jocket sold，to－day at $\$ 200$ ；ten of Thion at $15 ; 40$ or Zouave at 8 ＠10； 100 feot（probably）Buruside at from 27 3í＠（a） $75 ; 15 \mathrm{La}$ Cross at 20.

ESDIERALDA STOCK LIST．
［Corrected Weekly for the Mining and Scientific Press．］
nol．Not baving receivod our uaual report for the week，we continue our last week＇s quotations．
 Gar ath．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． Hano
Live
Neva
Del H
Pride Pel Doute An．．．．．．．．．．． Elda
Altur
Fres
Silve

## Avtelope． Wide What．

Main Esmuralda．
Newto．．．．．．．．
Ural［extensiod
Ural［exteosion）
General Hooker． Bamboo．．

Esmeralda Stucks offered at San Froncieco valuation


## TRANSACTIONS OF THE WEEK．

20 shares Ural sold ot $\$ 500$ ．
25 shares Strawherry sold it $\$ 20$ ．
25 shres Genoral Honoker sold at
20 fiares Gerenural Hold at $\$ 10$
13 shares Heath sold at $\$ 10$ ．
20 shares Brazil sold at $\$ 5$ ．
25 shares Frecuo
25 shares Fresuo aold at 39 ．
25 shares Bodie Biluf cousolidion sold at $\$ 17$ ．
75 feet tiribaldi lode．Hartiord Co，bold ot $\$ 20$ ．
75 feet triribaldi lode．Hartford
10 feet Bright Star sold at $\$ 12$ ．
10 feet Bright Star sold at $\$ 15$ ．

## From our Edition of Fcb 16th

## MINING EDUCATION.

In our last issue we referred to some of the disadrantages under which the California miners, as a class, labored by reason of the lack of a proper Mining Education. We also adverted to the fact that the popular autipathy against the application of science to mining, which was so prevalent amoog California miners, six or eight years since, has lately been pretty much laid aside. It is now very generally conceded that an empirical knowledge of mining is not the way to succeed in that difficult and uncertain branch of industry. The occurrences connected with the discovery and development of our silver and copper mines have produced such a change in public sentiment that, at the present day, it is rare to find a man who will openly avow, even if be secretly entertains, a belief in a necessary antagonism between theory and practice. Practice and science have now joined hands in the mines, and the time bas passed when the former will venture "to go it blind" in the vain confidence of shallow empiricism, anaided by science.

The attainment of a passable mining education, when proper facilties and-instructors are at hand, is not a work of so muich time and study as many suppose. The difficulties and mysteries involved in becowing an expert in planning and working a mine, and in acquining a practical knowledge of their geological and mineralogical characteristics, are no greater thian are to be ret with in many other subjects in the usual programme of practical and theoretic education. Experience is the foundation of success in all human under takings ; but the only value of experience is the facility which it affords us to deduce from previous results, a knowledge by which to overcome new or greater difficulties. This is identical with the inductive process of the man of science. But he that confines himself to his own limited experience, shuts his eyes against the lights of science; and, in despising the experience of others, he will soan find himself burried in the darkness of empiricism, while those who have entrusted him with their business will surely behold their undertakings enveloped in a labarinth of difficulties, which must sooner or later result in common and promiscuous ruin.

A large mine is a complicated machine, and we might with quite as much propriety place a ploughman, with no mechanical experience, whatever, in charge of a double cyl. ender printing press, as to place a man, whose experience in mining is confined to what he has done himself, in charge of a mining operation of any magnitude. The art of mining involves a general knowledge of mechanics, surveying, mineralogy and geology. To understand working a mine-boring, sinking, pumping, winding, stopeing, hauling and ventilation a tolerably correct knowledge of every leading principle in mechanics is needed. Without such knowledge the miner will find it impossible to decide upon the most economical means and arrangements for transport either in the mine or on the surface, the kind and capacity of engines needed, or the character and class of machinery best calculated to perform the work before him. Laying out the work propererly, each part with reference to another, requires a knowledge of surveying. To ascertain the proper place to sink shafts, involving calculations of the dip and strike of strata, probability of water, faults, \&c:, implies a knowledge of geology. : while by the aid of mineralogy only, can he determine the nature and valne of the minerals upon which he is working, or which may chance to come in his way. On a correct conclusion with regard to each and all these points depends the success of the undertaking. The employment of experienced men with liberal salaries, to superintend works of this description may sufely be predicted as uniformly resulting in larger dividends to stockholders, and increased safety to mine and workmen. Experience, coupled with a proper applioation of acience, is the obly foundation of fitness for the position of Mining Superintendent. The lack of these requisites has cost English adpentarers millions of pounds sterling-sometimes in the faulty opening of a mine, at others in the lack of mineralogical knowledge for determining the value and character of the mineral when found. We gave several instances of the latter in our last issue, we might multiply instances of the former adinfinitum.
It is to the lack of this latter information that we must atribute the delay in the developnient of the silver and cop. per mines of the State, a full dccade beyond the time when
their existence should have been known as the result of actual explorations.

There is but one way to remedy the evils here passed in review and provide our State with a competent corps of mining engineers and superintendents-A School of Mines must be established under the patronage and partial control of the State. An institution of this kind is absolutely pecessury to a proper development of: our resources. We need it as a collector and conservator of mining knowledge past and progressive. We need it as an institution for the general diffusion of information in this brabeh of industrial science. We need it as a place where the working miner, the proprietor and the engineer may be drilled and schooled in the art of mining; in all its bearings. Such schools have long beew in existence in nearly every country in Enrope where they are fostered with the greatest care by the different governments. We shall endanger our reputation as a progressive people if we much longer delay $a$ movement in this direction. The losses of property and misdirected outlay of capital already scored up, (to say nothing of the sad loss of life,) and laid at the door of inexperience, would have liberally endowed half a score of such schools.
Oar State Geologist, in his address before the Legislature two years ago, advised the early establishment of such a school. We have now a Legislative Committee on Mining. Is there any more important matter which can come before them than that which we are now disenssing? Have they ever thought seriously aponit? If so, or if not, heretofore, why would it not be well, at the present time, to prepare the general outlines of a plan forsuch an iustitution and let it go before the people, with a legislative endorsement, for future consideration.
Legislators are quite too prone to think that when they have enacted laws for the cr:ation and collection of revenue for the collection of debts and the pnnishment of crime, and, perchance, performed the herculean task of electing a United States Senator, they have fully discharged their legislative duties. They forget that thereare other equally, if not more important duties to perform, in providing the means for properly educating the adult industrial class of society. This is universally done in Europe, at least to an extent sufficient to proride compatent direotors for all the great industrial interests of the land.. We lave neither time nor space to say more under this hend than what will be merely suggestive; but we hold that it is quite time our Legislators should take this matter under consideration, and initiate some steps toward an ultimate accomplistiment of the end in view: The present "let alone" policy must iner. itably continue to result in serious losses, both to individu, als and the State, and we shall be fortunate indeed. if our chief industry is not thereby soon completely burried in the darkness of that empiricism in which it is already so sadly floundering.

## From oua Edition of Feb. 16th.

MINING INCORPORATIONS,
Nolwithstanding the attempts at editorial pleasantry that are so frequently indulged in by our contemporaries, at the lengthening list of mining Companies, and the cumulative exhibits, of the many millions of capital which they represent, "ol paper," each passing month bringe additional evi. dence that this wealth is far from imaginary. The constant ly increasing values of the figures which appear in our weekly stock reports, appended to the leading mines on the East ern Slope, are stubborn facts, which must soon make plain to the most anbelieving that the footings of the aggregate "capital," placed as a value upon the mines now in progress of development, are not much too high. Imagination can scarcely form any adequate cenception of the minera wealth, which is soon to be developed on the Eastern Slope, and throughout the entire length and breadth of the "Great Basin," whose Western and Eastern rims are formed by the rocky slepes of the Sierra Nevada and Rocky Mountains.
Several of these earliest formed Compauies, which, in the estimation of the great mass of people at that time, fixed their capital stock at an almost fabulous figure, have already reached the immediate vicinty of their incorporate value and their stock will no doubt, ere long, be quoted at a handsome percentage "above par." Indeed, one of them has already exceeded its par value and is quoted to day at more than 60 per cent. adrance.

Numerous others, second and third class mines, are making such favorable developments, at the present time, as give good earnest of an early approximation of their stock to par value.
A few years since scarcely a merchant in San Francisco could be induced to invest a dollar in any mining enterpriso. To do so was to lose caste, and endinger one,s credit "on change." Even vur foundrymen, could not be induced to invest a dallar, in a business to which they were then, as now indebted for alinost their entire business. Now things are entirely changed, and one can scarcely find a mau in San Trancisco who does not own "feet" in some mining claim, What matter is it if a large portion of these projected, companies should fail? All; or even a majority cannot hope to succeed. A sufficient number, however, will prove so remunerative as to return a handsome aggregate percentage on all the money invested. Hitherto the chief burden and losses attendant upon opening up the mines of California, have fallen upon the mining community almost exclusively, while the commercial and agricultural interests have been greatly profited at no risk. It is one of the conditions of mining, everywhere, that many individual losses, must occur, which, however, are always made good in the general aggregate of profits ; and it is creditable to the mer cantile interest of this city that it has now taken hold of the matter of developing the mines of the State and is freely pouring out its capital for that purpose. The aggregate of these investments cannot fail to be highly remunerative, and will reward the loosers even, in the increased business which they will create and concentrate in San Francisco. This city owes its very existeuce to the mines, and it betrays a feeling of selfishness in any man of means, to refuse to do his part in developing the interest upon which its prosperity depends. Every new Mining Company, whose organization is announced, is evidence that a new mine has been dis covered, and that somebody intends to spend a little money for its development. Every such item is a matter of encouragement, and iodicative that the great interest of the State is progressing. We trust the day is tar distsnt when we shall fail to find in each morning's paper the annoucement that some new mining organization has been effected during the previous day.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign countries. Four patents-A merican, Englisb, French and Belgian-will secure an inventor exclusire monoply to his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are suct, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Ameri cans in foreign countries are obtained through the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Government, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, etc., with promptness and dispatch.
Models are not required in any European country, bat the atmost cars and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravings should not be published antil the foreign applications Cave been made.
Caution.- It bas becoune a somewbat common practice for agents located in Eugland to send out circulars soliciting the patronage of American inventors. We caution the latter against hecding such applications as they may otherwise fall into the hands of irresponsible parties, and thas be defraaded of their rights. It is much better for inventors to entrust their
bome.
Whil
While it is true of Most European countries that the rystem of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should bave their papers prepared only by the most competent solicitors, a order that they may stand the test of a searching legal ex amination ; as it is a common practice when a patentee finds a purchuser for bis invention, for the latter to cause such examination to be made before he will except the title.

It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent ageits or pateot brokers, as they cannot ordinarily be trusted with valuable inventions.

## LOWER CAJIFORNIA

Colonization and Mining Company. THE AGENTS SENT TO MEXICO BE

1:25,00O Acres OF RI''IT AGRIOULTURAL LAND,
and a valuablo sllvor Mino,

## SPLENDID ENTERPRISE.

it proposes tu and a veasel about the firat of Maret No THME SHOCLD BE LOST BY COL.ONRTS.
Farmers Miners and Nechinnicg,
With familios are particularly invited by the authort (inex of the Turritury. The haud setnetes, its point of for Hilty of ail, is bow excelled on the Continent. The cli(1) unturplesed lis the worlit. The ricnegt Silve Kown toestat in the Territory are io the fmmedi he Culaby.
N. B. Bear in minithlat a share er sta, at present, on 8200 , which ontitles the fholler to frue trassporta fon for self, family, alldatiolisy of persmal use and an quib whare in the land, the Com:nny's silver Miue, ote. he whote ent

Full information can he had, and Mineral and Cotton peeimeas geen, by spplyingat the ontiev of the Compa $y$, North-west corner of Clay and Froat Street.

BOARD OF TRUSTEES.
A. G. RAND.ILIL. Prealdent.
CAIT. JIFIV HI. BELI, V. President.
 Cummitton on survey, -E. Richards, special Agent

RASCHE \& SONS, SAN FRaN(inco. bet.
WHOLESALE AND RETAIL DEALERS IN
Pianos, Sheet Miusic and Instruments of allings,
Solo agents for the celebrated manufacturers,
A. A. GALE \& OO., Nero Yoric:
C. MEYER, Philadelphin
T. GILBEa', Boston;

PLANOS FOR RENT.
New Musis receiuer by overy steamer. New Massic
abished. Muxic assortad and bound in the beat sty 10 A hberal discount made to the Trado aud to Profesiors ol
lusic.

WASHOE
Stock Exchange, v. A. cor. Montgomery \& Merchant sts. san francisco.
L. W. NEWELL \& CO.

Buy aud sell Washoe, Esmeralda aud other Mining Stocks and securities.

[^2]
## Attention! Attention!


A. ROMAN \& Co.,

Book Establishment, 417 and 419 Montgomory strect, SAN FRANCISCO.
Ordera respectully solicited and promptly attender to. ITrestise on Metillurgy, Comprisiug Mimng and Gen erni and Particular Mutallurgical Oporationg, Etc Etc. By Frederick Overman.
A Manall of Metallorgy, or A Prac
A Mandil or Metallorgy, or A practical Treatise on the
Records of Mining and Metallurgy, or Facta and Mem-
oranda for the Use of the Aline oranda for the Use of the Mine Agent and Smelter.
By Jumes Phillips and Jolin Darkipgton. By Jumes Phillips and John Darlagton.
Manual of Metallurgy, more particularly of the precious metals; hut includ ing such olhors as are employed
in dentas practice.
ggot ou the Chenistry and Mining of Copper.
Practical Mineral Assay ing and Miting. Overman.
Gold Mining aud Assaying; by Philps.
Miners' Companion and Guide, compiled by Silpersmith Mincrs' Companion and Guide, compiled by Silversmith.
Assayers' Guide; or Practical directious to Assayers, Miners and Smelters,
nitical issinting, by Mell.
ilver (Ires and silver Mlines, by Pro. Blake,
Ure's Dictionary of Arts Manutactures Ure's Dietionary of Arts, Manutactures and Mines.
We'jsbach's Mechanies of St .chiuery and Eugineerin Werisbar's slechanics of Bictaiuery aud Engineeriog
Fresenias' Chemical Analysis.
and similar lines
(02). Books imported to ordor on short notice. तa A. ROMAN \& Co. 417 \& 419 Montoomerv Street-

## READ THISI



 burned, us wers also the husband's hands. Huwerer
loe succeoded in mastering the dames, and preventiug
worse consequouces.-[Eveuing Bulletin, Aug. 4.

## THEN THIS

Comet Illumitating Oil!

## Mandicturad

Brand of Kerosene

BEST FAMILY OILIN THE MARKET. STANFORD BROTEERS,

## 3ur Beadfung für Erfinber,

- Erfinber, weldae nidit mit ber englijdjen

The Occidental IIotel
Open for the Reoeption of Guests.




News stand,
CABINET FOR MINERALS aso
A Branch Telegraph Office, Connecting with all the line thronghouttho
LEMIS LELAND \& CO. San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC!! MUSIC!!!

$$
\text { A. K } \overline{\mathrm{OH}} \mathrm{LER} \text {, }
$$

mporter of etery description of Musical Instruments \& Musical Merchandise SHEET MUSIC \& MTSICAL BOOKS. GENUINE ROMAN STRINGS, \&e.,

Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstruna Pianos
Wherever these instrumosts are known they RANK AS THE FIRST AND BEST Inftone, delicacy of touch and durability. All the leading Musicians of the country huve testified to their superiority.
A. KOHLER, Agent for the Pacific Coast.

MELONEONS AND HARMONIUMS from the crlebrated manufactory of

MASON \& HAMLIN, Warranted superior to all others.
oc 7
A. KOHLER, Agout.

## To Mill Owners.

Waxtzo, by a person fully competent to the position a situatinh as mpyNG Stremsteviner in a Gold or Copper
Mine. The Applicant was engaged for about eight yeurn as Superituteudent of Copper Miming Works in Cortuwall,
nud has acted in the same nud has acted in the same cupncity in Gold Mrese in this
State for the past seven years. He has had much expe-
 Ore, He can give ample testimonies as to his capacity for the position ho seers.
Apply at this Office.

## PHILADELPHIA BREWERY,

 Second St, corner of Folsom, San FranciscoHoelscher, \& Wieland Proprietors,
Thankful for past patronage to a discriminating
public, we beg leave to appriso at the same mo Lent public, we beg leave toappriso at the same moweil known Brewery has been permaneutly located in
our new premises, on siecond street- the former resiour new premises, on sacond street-the former resi-
dence of Capt. Fllsom where we slant ondearor to con-
tinue in furriblining our numerous patrons with the best tinuo in furnishing our numerous patrons with the bent
article of " Bier." We shall strive to perpetunte the good reputation for promptitude and the faith cul exeeu-
lion of orders as heretofore, and thereby inceasec our

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders
$\mathrm{B}^{\text {AbBeT METAL CASTiNGS, FIRE ENGINES, FORCE }}$
B and Lift Yumps, church, Ind steandoant By lls. Tav-

 rate's Patent Improved Juurval Metal.

## F. G. BEPLER,

Practical Coppersmith
No. 118 (Old No. 82) Hush street,
Between Sausome and Battery, Shy Francorgo.
Whilst thanjfinl for the frrmer confidence bestowed
 Breweries and Distilleries; ; also. all such as are used Where steam, spirits, or pumps of nuy kind be required.
Also Kithen uterisils for Hotele, hestauruants and priAlso, hitchen utbusils for Hotels, , hestaurunts aud pri-
yate houses. Baking apparatus for Bakers and ConiecYate houses. Baking apparatus ir bakers add
tioners, as wellas all other kiyds of copper work
dll ordors from the country promply attendod to.

FREDERIOK KESMODEL,
Cutler \& Surgioal Instrument Maker

## 817 KEARNY sTEEET,

Betwcou Juchson and Wushiugtun streote, san franclicio,





 advantagen I claim for thesc Trusses aoove any and all
others: 1 irst- The lmat is formed on the parts to be
 desiruble material, such as horra, ivory, etc. Third-Thi the body will move or displine it. There are many


## LABOR-SAVING

Rock Drilling Machine,
TO ENGINEERS, RallROAD CONTRACTORS, TURNand Ageat for GARDNER'S PATENTS, will contloue to

HAND, HORSE, AND
STEAM-POWER MACHINES.
The Hand Machines are expressly adapted for working
in Tumels, Gaileries, etc. oue man performing the labor or three in the ordinary Way.
A FOUR HORSE PUWER MACHNE, oporated by one man, drives a machine capable of drilling a four to six ioch diameter hole in granite four feet deep, aud fo burd
limestune, six feet per hour-the rapidity of the work befiug linitited only by we durability of the ateel drill. Satisfactory reference will be given as to the prac-
tical working of the muchine and its antire success in tical working or the machine, and its entire success in
roduciug the cost of drilfigg holes to onetenth of the for mer axpense, and ou a rock excavation of avy extent,
from fifty to seventy-Gvo per cont. on tho entire work. Responsible partiea who bave rock excavatious to make in any part of the State, the subscriber will undertake and guarantoe to perform the work required, at a sav-
ing of at least twouly-ive per cant. over any olher proing of at least twealy-Ave por ceat. over any other pro
cess. Address orders $\delta$.
Fremont street, bet. Market add MMs. W. DUNN, Sion, San Francisco.

LATEST IMPROVEMFNT
in Ladies' Buckles.
$\mathbf{M}^{\text {R. REICHEL RESPCTFULLY ANNOUNCRS TO THE }}$ dealers in Jewelry, that he has made mportant improve-
ments in BUCKLES, which surpass any und all bereto ments in BUCKLEE, which surpass any and anl bereto
ore made. Their simplicity, commodiounaoss, and ore made. Their simplicity, commodiousnoss, and
beauty render them tle inost useful as well as ornamenbeauty rende
tal triukeals.
Orders trom the country reapoctfully, Rolicited. For
particulars call at or address,
FREDERIK REICHEL, Raticulars call at or address, FREDEEIK RECICEEL, 620 Merchant tstreet, Sui Frauolsco.

## REMOVAL.

OFFICE OF THE PACLFIC MEETALlurgical onice is removed to 318 California street Haring enlarged our Works at North Beach, we are
now unabled to roduce from 10 to 15 tons of Silver or Gold rock por day.
Gold add Silver ore, and Sulphurel Assayers', or Silversmaths' sweepings reduced or purchased. CUP1PER OBBL-Higheat market rates advanced in
cash, for shijpraentas. S, C. BRADSHAW, Agent, cash, for shipraents. S , C. BRADSHAW, Agent,

## WRIGHT'S PICKS.

JOHN WRIGHT, of Sucramento, has establisned himself in san francisco for tho manufacture of overy prices. Prak, EyBs of the best iron furnished in any quan prices. Prok, EyEs of the best iron furnished in any quam
tity, at low rates Orders from the country promptly attended to. N. B.-None genuine unless stamped with my uame. JOHN WRIGHT, 511 Market strect, Opposite Battery, San Franeisco.

## 

HINCKLET \& CO.,
MANUSACTURERS OF STEAM ENGNES,
Quartz, Flour and Saw Mills; Cast ron
Fronts for Buildings, Mining Pumps,
and all kiuds of Machinery
Nos, 47 \& 49 First Street,
Between Market and Mission, San Francisco.
ALL kinds of Tron and Brass Cestings furnished a short notice. Every style of finishing to Iron when cast
Repairing to Mnchinery neatly done Patern Making i its various forms.
D. B. Binckley, Wm. F. Worth. Wm A. Field

## Instruction in Assaying, Etc.

A SIIRNTITIC AND PRACTICAL CHEMIST NOT HAV ing the whole of his time occupide with bis pres ent business, is prepared to teach the rariuns branches
of Chemistry nud Metullurgy, is willing to tench the method of s.Ssaying Goio, जLiver aud corper, nloue, o to tench the regulur systematic course of Qualitative or Quanutative Chemistry.

Address, T. P. Post Office, Box Nu. 167.

## WHEELER'S

 Amalgamating and Separating PansIt is acknowledged by all who have exan ined the prinsiples and witnessed the operation of these Pans, tha they are decidedly superiur for triturating and amalgamating purposes to any other in use.

The monst important principle connected with the one ration of these Pans is the seperation of the triturativg procoss from thrt of exuracting the amalgam from the
gaud. The chier cause of luss of che precious metials arisaud. The chier cause of luss of che precious metals uri-
ses from the passing off of the samo in combiuation with ses from the passing off of the samo in cimbian aick in the quicksilver, during the pruces of trituration, apu in
cleaning up. By the introduction of the Separating Pan to f. llow the trituration this loss is entirely aynided. In Working these machines there is no appreciable loss of quicksilver, und henco none of the precious metals.
Where these Pans have been int odnced and operated by the sidio of others ou sands from the same vat, the
Wheeler Paus have uuiformly gaiued a large percentage of metals over its competitor s , BS well as a still larger percentage in the amount of work performed.
***These Pans man be seen in daily operation, at the Miner's Foundry, on First street in this city, where all interested are invited to call and examine for themselves. Dol6-tf

## HAYNES \& LAWTON,

 mPORTERS AND DEALLERS INCROCKERY, GLASS WARE,

## FRENCH CHINA,

 Coal Oil Lamps, Table Cutlery, CLOCKS, Silver Plated and Britania Ware, WTO., ETC. ETC.NO. 516 SANSOME STREET, [Corner of merchant,]

## LEANDER RANSOM, Civil Engineer AND

SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO

## STATE LOCATING AGENT.

And as such hnving the sale of 600,000 ACRES OF STATE SCHOOL LANDS,

At the low price of $\$ \mathbf{1 , 8 5}$ per Acre.
Terms-Twenty per cent in cash and the balance on a credit of several years. OHE : Sceond floor of Express Building, N. E. cor

## SQUARZA'S PUNCH.

FIRST PREMIUM
AT THE SACRAMENTO AGRICOLTURAL. STATE FAIR FOR 1862.
ALSO; FIRST PREMIUM At the San Francieco Bay District Agricultural Falr, 1862 Manteactory, whoteshis afd retast,
No. 44 Leidsdontif street,
Opposite the What Cheer Eouse, San Francisco.

PEOPLE'S
Steamship Line! CONNECIING

## CATIFORNIA AND NEW YORK,

 via nlcaragca.750 Miles Shor ter than any other Route:
The Fast and Favorite Double Engine Steamship,
MOSES TATIOR, E. HOWES Will be dispatched for

## San Juan del Sur,

From Mission street Wharr
WEDNESDAY Puctualy at 9 clock, A. M., od 11. 1863. Convecting at GREYTOWN with the Spleadid Ster mshie ILEINOIS ....................... .8500 Tons.

Renuced rates of Passage and quick trips are secured By the re-opening of the Nicaragua Routo,
There Steamers are unsup, will bo made to insure thes comfort of passengers
For further information apply to
20 No. 40 I. K. ROBERTS, Agent,

## DONAHUE'S

Union Iron and Brass Foundry, Corngr of Fhast and Misyon Stremts, Sun Francisco The First Established in the State.

M ANUFACTURE STEAMENGINES
 prices. Have now the largest and best nssortmeut of
Gear and Machinery Patterne in the Stute, a list of which will be forwarded to mayone desiring it, free of cust.
peter donahue.

## LEWIS COFFEX AND RISDON,

 STEAM BULLER AND SHEXT LRONThe only exclusively Boiler Making Estrolishment on the Pacisc Cosat Owned and conducted by Practira Boiler Minkers, All orders for Now Work, the repairing to quality.
Old Stand corner Bush and Market Streets. Lewns CoFFEX

GREAT REDUCTION IN PRICES.

STANFORD BROTHERS, 121, 123 and 125 California Street,

Keep the Largest Stock of all Kinds of
Lamp Stock
And will Sell Cheaper than any othex
House in this state
Lamps, Chimneys,
Wices, Camphene,
Burning Fluid,
Alcohol, Coaz Orl
Torpentine, Kerosenes Oth,
COMET ILLUMIFATING OIL,
Sperm $\mathrm{Om}_{\mathrm{m}}$ Lard Oil,
Mageinery 0 il,
Rape Seed 0it,
China Not Ori
Polar 0ir,
Linseed Oif, Raw and Boiled,
Staris's Onf,
Neate Foot Oit,
Tanners 0il, Etc.

- Our customers in particular, and the country trade genrally, are requested to ascertain our pricos before purebasing from traveling agenls, as wo will sell at less es than they can afford to.
P. M. S. CO.

PACIF IC MAAL STEAMSHIP COMPANY' road with the steamers of the Atlantic and Paci6 Stenmslip Company at Aspinwall.

## FOR PANAMA.

The following Steamships will be dispatched in the moath of February, 1863.

Fobruary 21st, Steamer St. Louis.
Will leave Folsom Street Wharf, with Passongers and Treasure, for Panama
at $90^{\prime} C L O C E, A$. H., ponervarly,
And connect, via Pauama Ruilroad, at Aspinwall, with teamships for Now York.
For freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento aud LeidesdorII sts.

## TO OWNERS OF WATER-POWER

## Beth's. Hydraulic Fressure Wheel.

## THE SIMPLE, COMPACT, STRONGAND

effective mauner in which it is appleed to any height of rall, (3 feet to 300, ) and to any kind of machinery, will Suve in Trausportation Materiai and Iabor, from

25 to 50 iper ceat. of the entire cost of the
Structure to which it is applied, and propor-
tiomally increase its yalue.
For full information from the Inventor, apply at the
Miners' Foundry, trom 10 to $11 \mathrm{~A} . \mathrm{as}$., or address

## J. M. BETH.

Miners' Foumdry, San Francisco.
This Theel is fully guaramisd. Jau19-tf

## Holiday Presents !

WATCHES,

## DIAMONDS,

JEWELRT AND
SILVER WARE

## BRAVERMAN \& LEVY'S;

621 Wasnington street,
$\mathrm{W}^{\text {E CALL THE ATTENTTUN OF OUR FRIENDS AND }}$ the public in geopal to our well
JEWELRX AND SLLVER WARE,
Of the latest and Most Fushionable atyles, which wo have reecived by the last Stenmer. ALso,

FRENCH CLOCKS,
PRECIOUS STONES
Which we are gelling, SET or UNsET, at the very LOWEST PRICES.

BRATERMAN \& LETY,
Doc 29 1m
Facivg Maguire's Opcra House

## Agency For Patents.

THF, UNDEREIGNED baving been tong established in the Patent Agency Business, and having favorable
ogements for attending to the interests of inventors at thie Patent office in washington, ofer their services for the securing of caveats and Pa tents also, will at teu, to the sales of Patent Rights, and to all matter
connected with patented inventiong.

WETHERED \& TIFFANY, -Offer; 410 Montgomery street.

CEARLES R. BOND, (late City and County Assessor.)
REALESTATEAGENT,
No. 410 Montgomery street, San Francisco. real estate purchased and sold, and loans negotiatel.
For Sale Cheap!
 A 4 -Horse Power, Flu, Eoiler, in exacllent orlider, original cost. Apply to

Federal Building, cor. Battery and Washingtan,
Federal Building, cor. Battery and Washington' Sts

W ANTED by an Intelligeot and actuve young man livalihuod. He is sbout 38 years of ago, and is a good penman. Enquire at this offlce.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek, san fbanclisco.
CLEAR GOLE BEARING SULPBURETS WORIEN AT ical nrocess. Yield of Sulphurets from 20 to 60 per cent
hiigher than the BEST AMALGABI ATON PROCp higher than the BEST AMALGABIATION PROCLESS. Da- Apparutus for separating Sulphurets set up by ex
perienced lauds at a cost of $\$ 50$ to $\$ 100$, if desired by perienced hauds at a cost of $\$ 50$ to $\$ 100$, if desirect oy
mill owners. No power nor clean water requircd for be purpose.

## JULIUS SILVERSMI'E,

Commissioner for Nevada Territory, OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington streets., Room 23, up stairs.
$\mathrm{W}^{\mathrm{E}}$ whoul. Regrpctruly SOLICTT FROM THOSR who have busininera relationswith the nbove pam. ed Territhry, a share of their patronage in all maturs
yuiring the ofllial nction of a Commisiuner-ull at the drawing up of antidavits, ackuowledgments, the tak. ing of teatimouy, otc.

JAMES PHELAN, (Llate J. \& M. Phelun,) IMPORTER AND JOBBER,

## Wines; Liguors, Etcy Etoy

 Nos. 616 \& 618 Front sireet,Between Jackson and Pacific Streets,
Established 1849 . Established 1849 . Sis Frascisco
All Goods Guaranteed. Orders Solicited, termis lieral.

THEODOR KALLENBERG
Maker of Models FOR INVENTORS.
M ACHINES, MATHEMATICAL, Optical and Philosoph.
ica! Iustruments, Scalex, Weights, ical Iustrumeats, Scalex, Weights, etc.; Stee Stamps, Dles and Die Sinking, EmbussingStamps.
Ropairing of Machinory promptly attended to. Ropairing of Machinory promptly attended to.
No. Sansome street, cormer Mariset, au7.3m) San Frnnecisco.

PALMER, HANSCOMB \& CO;
GOLDEN STATE FOUNDRJ AND MACHINE WORKS.
First Street, near Market, san Francifeo
$\mathbf{R}^{\text {ESPECTIUTILY SOLICITS ORDERS for all kinde c }}$ Rene MACHINERY, for Mining an
Having the most complete arrangements and appoias meuts for fuishugaud execuliog any and ail kinds Castings nnd Machinery on this Coas
San Franciseo, Novemier
San Francisco, November 29, 1862.

## 50 lbs. Marine and

Fire-Proof Paint,
M ANUFACTURED BY THE PACIFIC METALLURGICA V1 Works in this city, for Hulls and Declis of Yessel from ground Miocral Rock contains Arsenic, Conper,
tharge and six other Minerals. When used min the Dec or Bottoms of ships, it is equal to a coat of stoue, al quite equal to Copper, no worms will ever effect it, a cheaper than any other pajat.

> DIRECTIONS :

For Decks of Shps, use two parta Mineral Paint,
part White Lead, mixwith Linseed Oil.
For Bottoms of Vessels, ube one part ground sulphe three parta Nineral Paint, nix with Coal Tar and apt
it hot.
For sale by allsbip Chandiers and Tradesmen, in bo; For anle by allship Chandirs and Tradesmen, in bo;
of 50 lbs each, or by the Pacific Metalurgical Works 25 POUNDS FIRIGPROOF PAINT.
When used on Roofr, Buildings, or Fences, it is eq to covering them with a cnat of Stowe, beivg perfoc Fire Proof, and coastiog less tban any paint.

DIRECTIONS :
HOUSE :-Mix three parts Mineral Paint with one
 Wanted, mix less paint, more leak. Lead; mix with Linseed oil. Fut it thick on a tin $F$ as one cont when properly appliedwill last three yeari :
G.T.FovQUs, Superintendent. © Ofice, 318 Ca


A JOURNAL OF MININA, AGRICULTURE, MANUFACTURES, SCIENCE, ART, CHBMISTRY, INVENTIONS, ETC.

MARCH 2, 1863.
ONDAY EVENING.

 C. W. M. SMITE and W. B. EWER,
-Proprietors.

> Engravings, Elcctrotypes, etc.

Wrexecute at this oflee Fingravings aod Lilustrations on wood, atone
 lan or ishored Primting. Joh Worls avecutal with dispiteh at low rates Pations will remomhar that when wh execule engravings we will insert
huta free of charbe in the Mistyind scasmize Pases, thuy giving the ad
 -artising Modam to be found uithe comery.

## To Printers.

A. Intraess in ono of the mast flourshing and best prying Newspa per onders in the mountalns is offored for sale on easy terms. A rare op portunity is heroly presented toany priuter denirous of extablishing bim elf fa a good business in one of the healthiost, most thriving and delight. if mountain towns il the state. For further information enquire at thi met:

Coal Product of the United States for 1860.
Statistics of Coal in the United States during the year bnding June 1, 1860, taken from the preliminary report on he eighth census, and revised and corrected for the $U$. Mining and Raiiroad Register :-

Bituminons.

|  |  |  | . |  |
| :---: | :---: | :---: | :---: | :---: |
| States. | Busbels. | Value. | Tons. | Value. |
| Rhode Island | 95,000 | 28,500 | 1,000 | 5,000 |
| Pennsylvania | 70,334,729 | 2,978,449 | 9,415,332 | 1,869,574 |
| Maryland. | 14,200,000 | 464,338 |  |  |
| Ohio. | . 31,639,375 | 1,653,558 |  |  |
| Indiana. | 1,643,800 | 113,568 |  |  |
| Hlinois, | 14,906,643 | 1,019,751 |  |  |
| Iowa | 86,500 | 6,640 |  |  |
| Missouri. | 97,000 | 8,200 |  |  |
| Kentucky. | 6,732,000 | 476,800 |  |  |
| Virginia. | 11,228,675 | 725,678 |  |  |
| Yeorgia. | 48,000 | 4,800 |  |  |
| Alabama. | 10,000 | 1,500 |  |  |
| lemnessce. | 3,474,100 | 413,462 |  |  |
| Wash. Ter. | 134,350 | 32,244 |  |  | $154,631,172 \$ 7,927,3889,416,332 \$ 11,874,57$

Anthracite-tons.
Bituminous-tons
.9.416,335
$\$ 11,874,574$
Bituminous-tons
6,185,246
7,927,388
Aggregate tons $15,601,578$
Value of coal mined in 1850.
Increase, ( 176 per cent.).
\$19,801,962
7,173,730
$\$ 12,628,212$
In view of the immense amount of Aathracito Coal now annually consumed, the product of the mines of the United States, it is difficult to relize that its utility as an article of fuel was comparatively of so recent discovery. Prior to about 1822, it was known only in Penusylvania as an in cumbrance to the ground, a "black rock," not even fit for , building purposes. Governor Findlay is said to have discov ered its inflammability by accident, having heaped some of
the "stones" on his fire to ascertain whether they contained any metalic substance. But a great many experiments were tried befure it became usefulas a colorific agent. An old Quaker is said to have been the frit one who originated the plan of buruing it in opep grates.
The product of Anthracite coals is confined almost exclusively to Penusylvania. The crals of England are bituminoa, $s^{\prime}$ and were used for fuel to a limited extent by the Danes and Saxons, many centuries ago. As long ago as 1306 , the use of coal was prohibited in London under the supposition that it was dangerous to health, and, indeed, as far back as 1281, coal was an article of trade at Newcastle, Eng.

Copper in Nevada County.-The Zinc House Copper Mines, on the Auburn Road, about which the Nevada Co. papers have had much to say, lately, appear to be progressing finely. From a private letter received yesterday, we are permitted to make the following extracts:
"The Pennsylvania Co. have struck their ledge at 27 feet and the assay of their ore at that depth was $18 \frac{1}{2}$ per cent. -every body elated and no one offering to sell. The first North Extension-"The Exchange Co." are preparing to get to work, in earnest, as the ledge has been struck both sides of them, making it a 'sure thing' that the lead runs through their ground."
A late number of the Grass Valley Notional, speaking of copper ores in that vicinity says:-"Copper miners who have worked in Europe, in Michigan and in other copper fields, assure us that they know of copper veins in the vicinity of Grass Valley, as also in proximity to Nevada, many of which will pay at least thirty per cent. The ore can be extracted at a light expense." The National further adds: "The copper mines of this section have one great advantage over thase of Lake Superior in this: At the latter place large masses of native copper, frequently weighing one hundred tons, are found, and the expense of extracting them is generally greater than the amount realized for the sale of copper. These immense blocks are chiseled out at an ex, pense of $\$ 10$ per foot, the work of course being done by hand. In all the copper ledges yet discovered in Nevada county, as we are informed by prospectors, the native copper found is in small particles, and of course is easily ex tracted, As the work of descending on copper lodes progresses, and great depths are attained, immense masses of native copper, like those found in the Michigan mines, may be found ; but by that period the price of labor will doubtless become reduced, and copper miners can afford to extract metal which at present, labor and transportation rates being high, would prove anything but remunerative."

The inventor of rebel torpedoes for blowing up vessels is a Massachusetts Yankee by the name of Ivins. He also built their ram Arkansas, the only crait that has troubled us on the Western waters. Sometimes they talk of forming a confederacy and leaving out New England; but even in their deviltry they have to look to Yankee genius. To leave New England out would be like a man's knocking off the top of his head to improve his intellect.

## TREATMENT OF SILVER ORES.

We commence, with the present issue, the republication, from the London Miving and Simelting Magazine, of a very interesting treatise on the Mexican method of amalgamating silver ores. This treatise is from the pen of a distinguished scientific man, who has a thorough practical as well as theoretic acquaintance with the subject upon which he writer. It will be continued through some five or six numbers of the Press, and will be found of much value to those of our readers engaged in mining for silver. Those who do not file the paper regularly, should at least preserve the numbers containing these articles. They will be fuund valuable both for relerence and study.

We have examined some very rich specimens of copper ore, at the office of Thos. Ogg Shaw, 422 Montgomery St. They were taken from the Keystone, Kentucky, Union and Webster ledges, Cupperopolis. Mr. Shaw has just returned trom the Copperopolis region, where he has been engaged in Superintending the putting up Mrs. Hall's Smelting Furnace and Condenser.

Some of the richest copper ore in the city may be seen at the office of the Miners' Foundry, on First St. It is from a mine recently opened near Lorello, Lower California, under the direction of R. McKee, Esq. We are promised some further facts with regard to this and other noines in that vicinity, which we shall place before our readers as soon as received.

Map of the Husboldt Mines.-We understand that a map of the Humboldt River Mines has recently been published in this city. Such a map, if full and correct, must be a valuable addition to our mining geography, at this time. We have not yet seen a copy.

The Geologicar. Survey.-The Sacramento correspondent of the Herald of Feb. 17th, says:-"The expenditures of the geological survey up to the present time has been $\$ 46,749$ 77. As the total amount appropriated for the Survey is fifty thausand dollars $(\$ 50,00$, ) it follows that only about three thousand and two hundred and fifty dollars $(\$ 3,250)$ remains available for prosecuting the work during the next six months ; and that unless some special provision is made by the Legislature it will bo stopped entirely in February or March."

Discovery of a Lead and Silfar Mine in Nevada Coun-TY-A mine containing lead and silver in large quanties, has recently been discovered in Washington township, about twenty miles above Nevada. A piece of the ore assayed by Mr. Ott, yielded 77 per cent. of lead, and silver at the rate of 140 ounces to the ton. The ledge is said to be 14 feet in thicknes, and to appearances the ore is of uniform thickness. [Nevada Democrat.

A Wide Ledge.-The Bacon Ledge, at Gold Hill, N. T., now owned by Fairfax, Doake \& Co., has proved itself, by recent explorations, to be eighty feet wide.

## [Froat tee London "Mlang axd Sabliting Magazine."]

THE MEXICAN METHOD OF AMALGAMATION.

> BY JAMES NAPIER, JCNT, F. C.S.

Late Chiemist and Assayer to the Guanaxuato Slint, Mexico.

## introduction.

Before proceeding to describe in detail the Mexican metlood of amalgamating silver ores-which will principally apply to those which crme under my own observation at Guaoaxuato-I propose making a few introductory remarks on the history of the Pa io amalgamation process, and on the composition of the ores charasteristic of some of the different districts.
The ancients were well acquainted with the property which mercury has foreombining with gold and silver, and took advantage of the fact for romoving gold from old apparel by first burning them to ashes in an earthern pot and then amalgamating them. IIumboldt also states that, before the discovery of America, the Germans employed marcury to extract gold from auriferous sands as well as from irou and copper pyrites; but we have no knowledge of mercury having been enrployed for the purpose of extracting silyer from its ores before the year 1557, when Bartolome Medina, a miner of Pachuca, in the neighborhood or Rea del Monte, in Mexico, discovered the "Patio" niethod of amalgamation. It is very difficult to form any correct idea as to Thow this wonderful process was invented, und what it was that led to the discovery. It could nut have been by chemical reasoning that Medina mixed the various ingredi-ents-sulphate of copper, (magistral) salt and mercurywith the minerals of silver to extract the metal ; and the discovery appears most extroordiuary when we consider that the process requires weeks and even months for its comple tion, so that a long time bad to elapse before the result of an experiment could be obtained. We can only suppose that Medina, being awfare of the property which mercury bas of combining with silver and forming amalgam-and also knowing that anhydrous sulphate of copper (obtained by calcining copper pyrites) when immersed in water gives out heat-conceived that if these were mixed with silver ore and common salt (which was thought to have a cleaning effect on the silver previ us to its combining with the mercury), that the heat cansed by the sulphate of copper would favon the amalgamation. Although this process requires a long time for its completion, the operation of reduction commen ces almost at once, so that by taking out trials swon after the incorporation of the mass it could be seen that the mercury was taking up silver ; and it would be easy to know by burning at iutervals a weighed portion of the amalgam, how much silver the whole qauntity of mercury added would contain, and when the process was completed.

In 1586, a Peruvian miner of the name of Carlos Corso de Leca discovered what has been termed "el beneficio de hierro" (the reduction by irou.) This consisted in adding to the torth small pieces of metalic iron, the object of which was to save mercury, which it would do by reducing the chloride of silver; but I am not aware of this process ever having been worked to any extent.

The next improvement made was by Alonzo Barba, in ${ }^{7} 1590$. It consisted in amalgamation in large copper pans, heated from below, and was called "el beneficio de caso $y$ cocimiento." In this process there was a great saving of mercury, but a large consumption of copper, as the chloride of silver was rednced at the expense of the copper pans it answers very well for the native chlorides, but not for sulphides of siiver. In 1784, this process was introduced into Europe by Barou de Born, au Austrian mining officer, and from it has sprung the barrel amalgamation of Frieberg, proposed, I believe, by Gellert. So that from the process first invented by Madina, in Mexico, has sprung all others for amalgamating silver ores; and although bis original process hos undergoue many alterations, the principle still remains the same.
siliter ores of a fey of the districts of mexico.
I believe that every known ore of silver has been met with in some one or other of the numerous mineral districts of Mexico, but many districts have ores peculiar to themselves, and all ores will not yield their silver by the "patio" amalgamation.

Perhans the ores of Guanaxuato yield their silver by the patio analgamation better than those of other districts,
from the fact of their containing hut few foreign metals ; the tively htitle ore, formenly gave very large quantities of chlosilwer being mostly found in the form of pure sulplides, iu ride, bromide and iodide of silver. These were reduced to many instances in carbonate of lime and quartz veins. The a great extent by the "Caso process," or in copper pans. A following shows an analysis of ore from the district of "La large quatity of the ore from this district is also smeited in Luz," in Guanaxuato :-

| Silica. | 75.00 |
| :---: | :---: |
| Silver. | 1.04 |
| Iron. | 4.71 |
| Carbonate of | $\text { - } 8.25$ |
| Sulphar. . | 3.29 |
| Copper | . 55 |
|  | 99.60 |

This, however, is not to be considered by any means as an average sample of ore from this district, for the average richness of the ores produced here will probably not exceed from 45 to 60 onnces of silver fer ton. Nearly the whole of the ores of this locality contain gold in various proportions. To show what proportion the gold bears to the silver we sulijoin the coinage of the mint of Gumaxuato for ten years, commenciag at 1850 .

Coinage of the Guanaxuato Mint for 10 years.

| Year. | Gold $\$$ | Silver $\$$ | Total $\$$ | Ter Cent <br> of Gold. |
| :---: | :---: | :---: | :---: | :---: |
| I850 | 709,472 | $7,801,300$ | $8,510,772$ | 8,336 |
| 1951 | 606,022 | $7,011,750$ | $7,617,772$ | 7.955 |
| 1852 | 746,956 | $7,625,650$ | $8,372,606$ | 8.921 |
| 1853 | 723,088 | $6,235,922$ | $6,969,000$ | 10.375 |
| 1854 | 450,288 | $5,029,712$ | $5,480,000$ | 8.216 |
| 1855 | 555,200 | $4,698,800$ | $5,254,000$ | 10.567 |
| 1856 | 479,476 | $4,306,524$ | $4,786,000$ | 10.018 |
| 1857 | 571,700 | $4,747,300$ | $5,318,000$ | 10.731 |
| 1858 | 489,744 | $4,725,256$ | $5,215,000$ | 9.391 |
| 1859 | $438,8^{\circ} 0$ | $5,046,120$ | $5,485,000$ | 8.001 |

The ores of Zacatecas frequently contain argentilerous blende, which makes them rather more difficult to work than those of Guannaxuato. Gold was almost unknown in the mines of Zacatecas until 1856, when a vein was cut in the miue of the "Bote" coutaining large quantities of gold, which still continues to yield a considerable produce of that metal.
Real del Monte produces ores of a very various nature, some containing considerable quantities of maganese ; as the following analysis of a sample by Mr. Rogers, from Santa Brigida vein in that district, will show :-


My late lamented friend Mr. Edward Louckner, who has examined these and similar ores very carefully, states that the silver in many cases exists as a manganate. The ore from the various mines of this locality differ very much in their nature and compo-ition, and have co nsequently to be reduced by different methods: some are reduced by patio, others by barrel amalgamation, and some are smelted, Some of the silver produced here contains sufficient gold to make its extraction a matter of importance.
In the district of Angangueo the silver exists mostly combined with bl-nde avd sulphide of lead, and is reduced by smelting. The following analysis shows its composition :

In Fresnillo the ores worked do no not perhaps exceed rom 16 to 24 ounces of silver per ton, but the quantity opcrated upou is very large indeed, being about six thousand cargas (A carga is equal to 3001 lbs ) weekly : the grinding is partly carried on by steam power. There is but one reduction works in this locality, but it is the largest of its kind in the world. The ores contain no gold.
The district of Catorce, although now yiolding compara-
small blast furnaces. The ores contain no gold.
In the district of Reyes the ores differ very much in composition, as may be seen from the followiog analyses :-


Some of the antimony in the second analysis existed as red sulphur. The first analysis may be taken as an average of the ores worked in this locality, although very trequently antimony is also found in various proportions. By the $P$ atio amalgamation not more than from one half to three. quarters of the silver can be obtained from these ores, and this only with a large loss of mercury. In examining various samples from this district, we have found part of the silver to exist in the form of silicate, which it is difficult to separate except by smelting; and the ores in general are not sufficiently rich to admit of this process being adopted where charcoal is so very expensive and scarce.

In the district of Jalpu a very interesting mineral of sil ver lias been found, which, according to R. Riclter, has the following composition:-


Affording the formula ( $3 / 4 \mathrm{Ag}$ plus $1 / 2 \mathrm{Cu}$ )S. It has a leadgray colour, and is malleable like ordinary silver-glance. Cleavage monometric, specific 6.877 to 6.890. Broithaupt has given it the name of Jalpaite. (American Journal of Science, 2 ser., vol. xxvi. p. 358. )
In many of the mineral districts of Mexico there are thon-1 sands of tons of low-class ores which would not pay the cost of amalgamation. Various plans and apparatus have beeri proposed from time to time for concentrating these ly washing, but up to the present time we know of none which has proved effective. Some of the machines have exhibited, much skill on the part of the inventors, and for many classes of ores I have no doubt they might answer admirably. To concentrate these ores they would first have to be finely. ground, because the sulphide of silver. is very intimately mixed witl the gangue, and this operation is a very. expertsive one in Mexico, having to be done by animal power. Besides, in grinding, the sulphide being softer than the gangue, becomes so fine that the portion which passes away in the water used for washing contains in many instances as much; and sometimes more, silver than the portion remaining behiad:
It may not be out of place just to remark here, that ber sides its wealth in silver, Mexico is much richer than is generally supposed to be the case in other minerals. In the present condition of the country these are of cour e quite inavailable; but they present the elements of great future prosperity when law and order are restored, and proper secu rity given to induce the application of the necessary capita to make them available. Many of these ores are distine tive in their composition, and are little known in Europe. [ To be coutinued.]
Old Iron.-The shipping of old iron from San Francisco th to the East is becoming quite a business, and begins to attrac atteution. Old iron is bought up in San Fraucisco at teu an twelve dollars per ton. After going East and being wrough over, the same iron is reshipped to San Francisco and sol. or $\$ 80$ and $\$ 110 \mathrm{pr}$ ton. The Bulletin urges the establis ment of a rolling mill in San Fraucisco to work up old iro and thereby stop such an unequal traffic as that of selling fo ten and twelve dollars per ton, and then buyiug it back a $\$ 80$ and $\$ 110$.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

## assessments letimd.

Texas Co., at a Mer ting held Feb, 14, lovied an assessmont of un! dullar per olares payable to the sucretary in Virginin C'ity.
Sunta Rusa Co.-February assessment of 20 cents per thare now due and payable.
Madison Co.-An ansessment, two dullars per share, was lavied Ferb. 17, payable immedrately, at Offies, G00 Mer chant St.

Tuiun Co.-An assessment of one dullar per slare was levied Feesruary 16, payable on or before Mareh 25.
Penn Co.-An assebsment of \&3 per share was lovied Felb. 5, one half payable Murch 1, buhance April 15.
Kossuth Co., Devil's Gate District.-Au assessment of 10 ets. per share was levied feb. T.
Cunstitution Company levied an assessment of 25 cts. per הeb. 11, payuble immediately.

La Pluta Uro Co. lovied an assessment of five doltare per thare, Feb. 9 , payable at Ollice of the secretary in Virginia City
Lat Plata Co. lovied an assesment of 50 cts . per share Peb. 2nd, payable at Olfice of the P'resideut.
Alamo Co. levied an assessment of 50 cts . per share, Feb. 1, payable on or before March 20, at 115 Cul. Strect San rancisco, or at office in C'arson City.
Tucker Cu. levied an assessment of 25 ets. per share, Feb. 11, payable immediately at 608 Merchant st.
Hawley Co. levied an assessment of one dollar per share, n Feh. \%, payable on or before March 12, to Superinteadout at the mine, or Secretary at Office.
Shute Rangy Co. levied an assessment of 50 ets. per share, Peb. 4, payuble, March 15.
Assessments upon Mining Stock have been levied as fol-
Caledonia G. \& S. M. Co. levied an assessment, Feb. 1 of su cents per share, payable immediately. Sale ol deliquent stock will be made Murch Tth.
Moss G. \& S. M. Co.-Anassessment of 50 cents per share was levied Jan. 27, payable at 428, Moutgomery St., or to the superintendent al the mine.
White Cloud G. \& S. M. Co. levied an assessment of 25 cento per share, Jan. 27, payable to the Secretary, at 128, Montgomery s't.

Warren $G, \& 5$. Mining Co.-An assessment of 75 cts . share was levied Jan. 26, payable to the Supt., at Vingina City, or to the Sec., 428, Montgomery St.
Warren G. \& S. M. Co.-An assessment of 50 cents per share was levied Jrn. 27, payable to the Sec. in this city or to the supt. at the mine.
El Dorado G. \& S. M. Co,-An assessment of One Dollar per share was levied Jan. 23, payable to the Nee. or to the Supt.

Grudaloupe S. M. Co.-An assessment af $\$ 30$ per share was levied, payablo on or before March 1st.
El Tesora Mining Co.-An assessment of $\$ 1 \frac{1}{2}$ was levied Jaa. 27, payable at office on or beforə Feb. 27.
Polar Star G. \& S. M. Co. levied an assessment f 50 ceuts per share, February 4th, payable on r before the 4th of March, at the Uffice in this city or
o the Superintendent at the mine in Aurora, (Esmeralda.)
Dios Padre G. \& S. M. Co. leried an assessment of 3 dollars per share, Jan. 31, payable in 30 days, alsu an assessment of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.

Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.
Sonora Mining Co,-An assessment of 25 cents per share was levied,Jan 23, payable imnediately.
Overman Mining Co -25 eents per foot, Jan. 29, payable within ten days.

Chs. Caney Mining Co.-50 cents per share, Jan. 21, payable ou or before Feb. 20th.
Aaliatic.-Fifty cents per share, payable at No. 4. Armory Hall, San Francisco, or to the Superiatendent at the Mine. Hattie G. \& S. M. Co.-Thirty eents per share, levied Jan. 31, payable at Office in San Francisco, or at the Mine.
Hrale \& Norcsoss-Assessment of Ten Dollars per
Share, levied Jan. 31 - payable at the Office in this city, or Share, levied Jan. 31 -payable at the Office in this city, or to John Skae, at the Mine, on or before Feb. 25.

Nierra S. M. Co. An Assessment ofs $21 / 2$ was levied Jan. 22 -payable immediately, at Office 575 Mission St.
Mount Davidson Co.-An Assessment of 50 cents per Share was levied, Jan. 23, payable on or before March ist at Office 47 Montgomery Block.

Mina I'rieta is. M. Co. - An Assessment of Five Ihuilars per share was levied. Jan. 31. payable on or bure March th-at Ollice, cor. Montgomery it Jacksun Sts.

Recorder Mining ( $0 .-$ An Assessment of One Nollar ner oot was levied Jan. 19, fayable hatf on or betore Feb. 18 and balance on or Lefure March 20.
Ifule \& Norcruss N. M. Co. have levied an absessment of sis per ahare payable on or before Jan. 26 th.
Marlin White.- An assesement of 20 ets. a share was levied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cte. per share was levied, Jan. 14. payable at Uffice, cor. Sutton Aventu and C'St., Virginia City.
Baltimore America Consolidated. An assessment of 50 ents per share was leviel, Jan. 5.
Sayage.-Au assesstuent of $\$ 35$ cents per share was levd, Jan. 7.
Hawley.-An assessment of 25 cts . per share was levied Jau. 5, payable in 30 days.
Cole S. M. Co.-An assessment of One Dollar per share was leviod, Juu. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds ets. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, lioums 7 and 8 , Government House, Sian Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jull. $1 \overline{1}$-payable Feb. 18.
Lady Bryan.-An assessment of 70 cts . was levied, Jan. 3, payable on or before Feb. 16.
Ida. G. \&\& S. Co. (Russ Distriet)-An assessment of $\$ 1$ vas levied, Jan. 14.
Red, Wuire and Biue G. \& S. M. Co. levied an assessment of 25 c -nts per share, payable on or before ${ }^{\circ}$ Feb. 1st ffice cor. Pine and Montgomery Sts.
Mina Prieta S. M. Co.-An assessment of $\$ 10$ per slare was levied, Dec. 26, 1862-payable at office, cor. Montgomory and Jackson Sts., on or before Jan. 26, 1863.

## company meetings.

The Cocheco Co. will hold a meeting at No. 606 Montgomery St., on Monday, March 2nd, for the purpose of re vising By-Laws, etc.
Ohs. Caney Co.-Special meeting of stnckholders will be held on Wednesday, March 18, to consiaer the propriety of an increase of capital stock.
South Utah Co. will hold its annual meeting for election ef Trustees, etc., at No. 608 Merchant St., March 20.
Nevada Co. will hold its annual meeting for electing Trustees, etc., at 608 Merchant St., March 20.
Potosi Co.-Annual meeting will be held at Office, in this city, March 3d.
Aunie Lauric Co. will hold its annual meeting for election of Trustees, etc., March 19.
Santa Rosa will hold its annual meeting, March 5, at Tucker's Hall.
Desert Co. will hold its annual meeting, March 4.
Daney Co. will held its annual meeting, March 2.

## ASSESSMENT SALES.

Texas Co. will sell delinquent shares, on the 14 of March.
Meredith Co. will sell delinquent stock, March 2 n .
Coso Oo. will sell delinquent stock, March 18.
Moray Co. ( $\overline{\text { V }}$. City.-Suits for delinquent assessments will be commenced, March 14.
Michigan Co. (Gold Hill) will commence suits for delinqueut assessments, March 16.
Sales of Stock for non-payment of assessments are advertised to bo sold as follows :-
North Potosi Mining Co.-Sales deliquent stock will be made March 17.
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be made March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Co., 327, Montgomery St., San Fraucisco, on the 25 th of February.

Combination G. \& S. Mining Co.-Sale by E. S. Spear \& Co., at 433 California St., on the 10th day of March next.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for assersments, at No. 400, Montgomery steet, on Jan. 27.
Desert Mining Co.-Shares of delinquent stockholders will be sold nt anction, for assessur, nats, at No. 400, Mout-
gomery street, Jan. 27.

## Gl:MEIBLL Nutices.

Jenny Lind (Fismeralida.)--()wners of around in this Co. are rergiestes to call and sign deed of thmot at 608 Merchant St.

Monut Irone ('o.- Cersuns cloiming stock are reçrested to present title papers for exumination till March 16.
U. S. Mininr ('o.-All prersons claming stuck are requested to present fitlo papurs for examination at Nos. 7 \& 8 Govermment House.

Caution.-D. M. Tyrell wams persons against purchasifig a certain 10 feet of promel in the Wellingtum ('o., standing in the mame of J. J. Maree-also 20 feret, standing in name of W. Williams. (See Territurial ksterprise.)

Ashland Co.-I. A. Gould, in the name of the Moss Co. notifies the Ashlnnd Co. that their westerly drift has cut the Lambledre, in the Moss C'o.'sqround, from which the Aslo laud Co. is forbidden to extract any valuable metals.
Coso Silver Mining Co.-The Office of this Company hoe been remored from the Sterenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Muntgomery and Kearny. Entrance on buth Clay and Mevehant streets.

Fenry Martin G. \& S. M. Co.-"Mhomas Wallace, Trustee." gives notice that whereas certain parties illegally clajming' to be 'rrustees of this Company, have clanged the name of the Corporation to the North Star G. \& \&. M. Cu., and illegally elected uficers for the same, the public are cautioned against such acts, etc.
The Swieney Co., Gold Hill, give notice that Baltie Company have wrongfuly claimed and worked their ground since July, 1860.
The Cumaney Rock Co., lying next west of the Virginia Co. claims have notified the Hazel Green, Tingley and Buach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.

## ESMERALDA MINING NOTICES.

The Zenobia Lode Company, give notice that they claim a superior title to the Jolusou Co., claiming the same ground, so far as said localities couflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J. C. Dorsey. S. P. Dorsey and James Elder,

## MINING AND SCIENTIFLO PRESS.

THE ONLY MINING, MECIIANICL AND SCIENTLFIC PAPER ON THIS CONTINENT.

## THIRD KEAR: VOLUME MI.-NEW SERIES।

A new volume of this extensively circulated paper commenced Scpt. 11, 1862. It is intended that every number shal bo replete with information
concerning Mining, scientific, Mucluanical and Industrial pursuits, together with several original engraviags, of auw inventious, etc., prepared expressly for its columus.
This puper is devoted to the above purposes, together with the interests of seicnce, Arts, Agriculture add Commerce, and any general information
that may be of interest to the roader ; nus it is the intention of the propriotor to spare no puins or expense in muking it equal in interest and valuablo information to any puper yet published.

## The Mining Interest!

Will find it of grrat value, as it will contain all the news anpertaining to Miniug, the prwes and sules of Mining stocks, new inveutions of Muchinery addeper to hat parpose, and of everythms gencrany tain may be of service
to tho

## The Inventor !

Will find it an excellent meduin for the purposis of bringing his invention
 in obtaining his patert, the preprictor haviag had great experience as a Patent Agent, tngether with faciltius at Washington that crable him to ob ain Patents with dispateh.

## The Mechanic and Manufacturer!

Will bo greatly bonefted by its perusal, as each numbor will contan several nriginal engravings of new machimes and inventions, logethor with a large arnoust of reating matter uppertainmg thereto. We are constantly receiving the best scicutific lourbals fonm all quarters, from which we shall cont
readers.

To Chemists, Architects, Millwrights and Farmers! This journal will be iuvaluable. All new discoreries in Chemistry will be Hillwrights will be fuanil in cur columis. Tho Farmersand planters will got bo neglecterl, engravings will be given of hgricultural inplements, aud the farming iutercst generally will beamply discussed.

## Texms.

To mail subseribars:-Four Dollars por abnum, Club Rates.
Flye Copics for Six Montles, $\$ 8$
Teu Copies for Six Mouths, \$16.
Ten Coples for Twelve Months, $\$ 30$.
Fificen Conies frr Twelve Months, $\$ 44$,
Twenty Copies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subseription is onls $\$ 280$ Tames cau bo sent in at different times and from diffrent Post-offices specimen copies will be sent grutis to any part of the country.

EWIERE \& SMITH, Publislemes,
Room 27, (formerly) U. A Court Building, Corner of Washingten and Ba

## [Froan tree Loxdon "Mining and Sulling Magazine."]

THE MEXICAN METHOD OF ANALGANTATION.
by James Napise, JEN., F. C.S.
Late CHemist nad Assajer to the Guanaxunto Mint, Mexico.

## introduction.

Before proceeding to destribe in detail the Mexican method of amalgamating silver ores-which will principally apply to those which came under my own observation at Guaoaxuato-I proposie making a few introductory remarks on the history of the Pa io anlulgamation process, and on the composition of the ores charasteristic of some of the different districts.
The ancients wore well requainted with the property which mercury bas for combiniug with gold and silver, and took advantage of the fact for renowing gold from old apparel by first burning them to nshes in an earthern pot and then amalgamating them. Humboldt also states that, before the discovery of Ainerica, the Germans employed mercury to extract gold from auriferous sandes as well as from iron and copper pyrites; but we have ne knowledge of mercury having been eniployed for the purpose of extracting silver from its ores before the year 1557, when Bartolome Medina, a miner uf Frachuca, in the neighborhood or Real del Monte, in Mexico, dissovered the "Patio" method of amalgamation. It is very difficult to form any correct idea as to how this wonderful process was invented, and what it was that led to the discovery. It could not have been by chemical reasoning that Medina mixed the various ingredi-ents-sulphate of copper, (raagistral) salt and mercurywith the minerals of silver to extract the metal ; and the discovery appears most extraordinary when we consider that the process recquires weeks and even months for its completion, so that a long time had to elapse before the result of an experiment could be obtained. We can only suppose that Medina, bsing aware of the property which mercury has of combining with silver and forming amalgam-and also knowing that anhydrous sulphate of copper (obtained by calcining copper pyrites) when immersed in water gives out heat-conceived that if these were mixed with silver ore and common salt (which was thought to have a cleaning effect on the silver previ us to its combining with the mercury), that the heat caused by the sulphate of copper would favour the amalgamation. Although this process requires a long time for its completion, the operation of reduction commences almost at once, so that by taking out trials suon after the iucorporation of the mass it could be seen that the mercury was taking up silver ; and it would be easy to know, by burning at intervals a weighed portion of the amalgam, how much silver the whole qauutity of mercury added would contain, and when the process was completed.
In 1586, a Peruviau miuer of the name of Carlos Corso de Leca discovered what has been termed "el beneficio de Jierro" (the reduction by irou.) This consisted in adding to the torta small pieces of metalic iron, the object of which .was to save mercury, which it would do by reducing the chloride of silver ; but I am not aware of this process ever. having been worked to any extent.
The next improvement made was by Alonzo Barba, in 1590. It consisted in amalgamation in large copper pans, heated from below, and was called "el beneficio de caso y cocimiento." In this process there was a great saving of mercury, but a large consumption of copper, as the chloride of silver was reduced at the expense of the copper pans it answers very, well for the native chlorides, but not for sulphides of silver, In 1784, this process was introduced into Europe by Baron de Born, an Austrian mining officer, and from it has sprung the barrel amalgamation of Frieberg, proposed, I believe, by Gellert. So that from the process firist invented by Madina, in Mexico, has sprung all others for amalgamating silver ores; and although his original process lias undergoue many alterations, the principle still remains the same.
silver ores of a few of the districts of mexico.
I believe that every known ore of silver has been met with in some one or other of the numerous mineral districts of Mexico, but many districts have ores peculiar to thenselves, and all ores will not yield their silver by the "patio" amalgamation.
Perhaps the ores of Guanaxuato yield their silver by the patio analgamation better than those of other districts,
frim the fact of their containing hut few foreign metals ; the |tively little ore, formerly gave very large quantities of chlosilver beiag mostly found in the form of pure sulplides, iu ride, bromide and iodide of silver. : These were reduced to many instances in carbonate of lime and quartz veins. The a great extent by the "Caso process," or in copper pans. A following shows an analysis of ore from the district of "La large quautity of the ore from this district is also smelted in Laz," in Guanazuato :-


This, however, is not to be considered by any means as an average sample of ore from this district, for the average richness of the ores produced here will probably not exceed from 45 to 60 ounces of silver per ton. Nearly the whole of the ores of this locality contain gold in parious proportions. To show what proportion the gold bears to the silver, we subjoin the coinage of the mint of Guanaxuato for ten years, commeacing at 1850.

Coinage of the Guanaxuafo Mint for 10 years.

| Year. | Gold \$ | Silver \$ | Total ${ }^{\text {\% }}$ | Per Cent of Gold. |
| :---: | :---: | :---: | :---: | :---: |
| 1850 | 709,472 | 7,801,300 | 8,510,772 | 8,336 |
| 1951 | 606,022 | $7,011,750$ | 7,617,772 | 7.955 |
| 1852 | 746,956 | 7,625,650 | 8,372,606 | 8.921 |
| 1853 | 723,078 | 6,235,922 | 6,969,000 | 10.375 |
| 1854 | 450,288 | 5,029,712 | 5,480,000 | 8.216 |
| 1855 | 555,200 | 4,698,800 | 5,254,000 | 10.567 |
| 1856 | 479,476 | 4,306,524 | 4,786,000 | 10.018 |
| 1857 | 571,700 | 4,447,300 | 5,318,000 | 10.731 |
| 1858 | 489,744 | 4,725,256 | 5,215,000 | 9.391 |
| 1859 | $438,8^{\circ} 0$ | 5,046,120 | 5,485,000 | 8.001 |

The ores of Zacatecas frequently contain argentiferaus blende, which makes them rather more difficult to work than those of Guamnaxuato. Gold was almost unknown in the mines of Zacatecas until 1856 , when a veia was cut in the miue of the "Bote" contaiving large quantities of gold, which still continues to yield a considerable produce of that metal.
Real del Monte produces ores of a very various nature, some containing considerable rquantities of maganese ; as the following analysis of a sample by Mr. Rogers, from Santa Brigida vein in that district, will show :

| Silica. | . 00 |
| :---: | :---: |
| Alamin | 8.00 |
| Peroxide and sulphide of iron. | 7.50 |
| Magnesia, | 1.60 |
| Sulphide of lead. | 2.82 |
| Peroxide of manganese | 5.30 |
| Sulphide of zinc. | 2.30 |
| Lime | 1.45 |
| Sulphide of coppe | 40 |
| Silver. | 25 |
| Potash, antinony, tellurium, traces of \} soda, gold and loss. | 2.38 |
|  |  |

My late lamented friend Mr. Edward Louckner, who has examined these and similar ores very carefully, states that the silver in many cases exists as a manganate. The ore from the various mines of this locality differ very much in their nature and compo-ition, and have consequently to be reduced by different methods: some are reduced by patio, others by barrel amalgamation, and some are smelted, Some of the silver produced here contains sufficient gold to make its extraction a matter of importance.
In the district of Angangueo the silver exists mostly combined with bl-nde avd sulphide of lead, and is reduced by smeiting. The following analysis shows its composilion:

| Sulphur.............. 32.00Iron............ 1344Antimony......... 2.40 |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

$$
100.90
$$

In Fressnillo the ores worked do no not perbaps exceed trom 16 to 24 ounces of silver per ton, but the quantity operated upon is very large indeed, being about six thousand cargas ( A carga is equal to 300 lbs ) weekly : the grinding is partly carried on by steam power. There is but one reduction works in this locality, but it is the largest of its kind in the world. The ores contain no gold.
The district of Catorce, although now yielding compara-
small blast furnaces. The ores contain no gold.

- In the district of Reyes the ores differ very much in composition, as may be seen from the following analyses :-


Some of the antimony in the second analysis existed as red sulphur. The first analyzis may be taken as an average of the ores worked in this locality, although very trequently antimony is also found in various proportions. By the $P(x-$ tio amalgamation not more than from one-half to threequarters of the silver can be obtuined from these ores, and this only with a large loss of mercury. In examining various samples from this district, we have found part of the silver to exist in the form of silicate, which it is difficult to separate except by smelting; and the ores in general are not sufficiently rich to admit of tbis process being adopted where charcoal is so very expensive and scarce.

In the district of Jalpu a very interesting mineral of silver has been found, which, according to R. Richter, has the following composition :-


Affording the formula $(3 / 4 \mathrm{Ag}$ plus $1 / 2 \mathrm{Ca}) \mathrm{S}$. It has a leadgray colour, and is malleable like ordinary silver-glance. Oleavage monometric, specific 6.877 to 6.890 . Breithaupt has given it the name of Jalpaite. (American Journal of Science, 2 ser., vol. xxvi. p. 358.)
In many of the mineral districts of Mexico there are thousands of tons of low-class ores which would not pay the cost of amalgamation. Various plans and apparatus have been proposed from time to time for concentrating these by washing, but up to the present time we know of none which has proved effective. Some of the machines have exhibited much skill on the part of the inventors, and for many classes of ores I have no doubt they might answer admirably. T'o concentrate these ores they would first have to bo finely ground, because the sulphide of silver, is very intimately mixed with the gangue, and this operation is a very, expensive one in Mexico, having to be done by animal power. Besides, in grinding, the sulphide being softer than the gangue, becomes so fine that the portion which passes away in the water used for washing contains in many instances as much; and sometimes more, silver than the portion remaining behind:

It may not be out of place just to remark here, that besides its wealth in silver, Mexico is much richer than is generally supposed to be the case in other minerals. In the present condition of the country these are of cour e quite unavailable; but they present the elements of great future prosperity when law and order are restored, and proper security given to induce the application of the necessary capital to make them available. Many of these ores are distinc. tive in their composition, and are little known in Europe.
[To be continued.]
Old Iron.-The shipping of old iron from San Franciscote to the East is becoming quite a business, and begins to attrac. attention. Old iron is bought up in San Francisco at ten anr twelve dollars per ton. After going East and being wrough over, the same iron is reshipped to San Francisco and sole for $\$ 80$ and $\$ 110 \mathrm{pr}$ ton. The Bulletio urges the establisi ment of a rolling mill in San Francisco to work up old iron and thereby stop such an unequal traffic as that of selling fo ten and twelve dollars per ton, and then buyiug it back a $\$ 80$ and $\$ 110$.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINLNG NOTICES.

## Assfasments letied.

Texas Co.. nt a Me ting held Feh. 14, levied an assessment of one dullar per share, payable to the secretary in Firginia City.
Sunta Rosa Co.-Felruary asecssment of 20 ccuts per share now due and payable.
Madison Co.-An assessment, two dollars per share, was levied Feb. 17, payable itumedately, at Office, 600 Mer chant St.
Cuion Co.-An assessment of one dullar per share was levied February 16, payable on or before March 25.

Pena Co.-An assessment of $\$ 3$ per share was levied Fel. 5, one half payable Murch 1, balance $A$ pril 15.
Kossuth Co., Devil's Gate District.-An assezsment of 10 cts. per share was levied l'eb. 7.
Constitution Company levied an assessment of 25 cts . per -eb. II, pagable immediately.
La Plata Oro Co. lovied an assessment of five dollare per share, Feb. 9, payable at Olfico of the Secretary in Virginia City.
La Plata Co. levied an assesment of 50 cts. per share Feb. 2nd, payable at Uffice of the President.
Alamo Co. levied an assessment of 50 cts . per share, Feb. 11, payable on or befure March 20, at 115 Cul. Street San Francisco, or at office in Carson City.
Tucker Co. levied an assessment of 25 ets. per share, Fel. 11, payable immediately at 608 Merchaut St.
Hawley Co. levied an assessment of one dollar per share, on Feb. 9, payable on or before March 12, to Superintendent at the mine, or Secretary at Office.
Slate Range Co . levied an assessment of 50 ets. per share, Feb. 4, payable, March 15.
Assessments upou Mining Stock have beeu levied as fol-
Caledonia G. \& S. M. Co. levied an assessment, Feb. l, of 50 cents per share, payable immediately. Sale ol deliguent stock will be made March 7th.
Moss G. \& S. M. Co.-An assessment of 50 cents per share was levied Jan. 27, payable at 428, Montgomery St., or to the Superintendent at the mine.
White Cloud G. \& S. M. Co. levied an assessment of 75 cents per slare, Jan. 27 , payable to the Sectetary, at 428, Montgomery it.
Warren $G$, \& S. Miniug Co.-An assessment of 75 ets. a share was levied Jan. 26, payable to the Supt., at Vinginia City, or to the Sec., 428, Montgomery Sit.
Warren G. \& S. M. Co.-An assessment of 50 cents per share was levied Jon. 27, payable to the Sec. in this city or to the Supt. at the mine.
El Dorado G. \& S. M. Co.-An assessment of One Dollar per share was levied Jon. 23, payable to the Sec. or to the Supt.
Gaudaloupe S. M. Co.-An assessment of $\$ 30$ per share was levied, payable on or before Mtarch 1st.
Er Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levied Jan. 27, payable at office on or befora Feb. 27 .
Polar Star G. \& S. M. Co. levied an assessment of 50 cents per share, February 4th, payable on or before the 4 th of March, at the Uffice in this city or to the Superinteudent at the mine in Aurora, (Esmeralda.)
Dios Padre G. \& S. M. Co. Ieried an assessment of 3 dollars per share, Jan. 31, payable in 30 days, also an ascessment of 2 dollars per share, payable in 60 days, at office 502 Moatgomery street.
Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.

## Sonora Mining Co.-An assessment of 25 cents per share

 was levied,Jan 23 , payable immediately.Overman Mining Co. -25 eents per foot, Jan. 29, payable within ten days.
Chs. Caney Mining Co.-50 cents per share, Jan. 21, payable en or before Feb. 20th.
Adriatic.-Fifty cents per share, payable at No. 4 Armory Hall, San Francisco, or to the Superintendent at the Mine.
Hattie G. \& S. M. Co.-Thirty cents per share, levied Jan. 31 , payable at Office in San Francisco, or at the Mine.
Hale \& Norcsoss-Assessment of Ten Dollars per Share, levied Jan. 31 - payable at the Office in this city, or to John Skae, at the Mine, on or before Feb. 25.
Sierra S. M. Co. An Assessment of $\$ 21 / 2$ was levied Jan. 22 -payable imnediately, at Office 575 Mission St.
Mount Davidson Co.-An Assessment of 50 cents per Share was levied, Jan. 23, payable on or before March 1st, ut Office 47 Montgomery Block.

Mina I'ricta S. M. Cob-An Assessment of Five Doilars pel Silare was levied. Jan. 31, ptaydue on or br Lure March 5th-at Uflice, cor. Muntgomery it Juckison Sts.
Recorder Mining C'o.-An Assessment of One Dollar per oot was levied Jan. 19, payahle half on or belore l'eb. 18, and balance on or befure \$arch 20 .
Hale \& Norcruss A. M. Co. have levied an assessment of $\$$ i) per share payable on or before Jan. 26 th.
Martin White.-An assegement of 20 cts. a share was lovied, Juu. 2.
Oriental G. \& S. M. Oo.-An assessinent of 50 cts per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue aud C'St., Virginia Clity.

Battimore America Consolidated. -An assessment of 50
ents per share was leried, Jan. $\overline{5}$.
Savage,-An assessment of $\$ 35$ conts per share was levd, Jan. 7.
Hawley.-An assessment of 25 cts . per slare was levied Jau. 5, payable in 30 days.
Cole S. M. Co.-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms and 8 , Goverument House, San Fraucisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15 -payable Feb. 18.
Lady Bryan.-An assessment of 70 cts . was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.
Red, Wifteand Blue G. \& S. M. Co. Ievied an assessment of 25 e rits per share. payable on or before *Feb. 1st, office cor. Pine and Montgomery Sts.
Mina Prieta S. M. Co.-An assessment of \$10 per share was levied. Dec. 26, 1862-payable at office, cor. Montgomery and Jackson Sts., on or before Jan. 26, 1863.

## Company meetings.

The Cocheco Co. will hold a meeting at No. 606 Montgomery St., on Monday, March 2nd, for the purpose of reising By-Laws, etc.
Chs. Caney Co-Special meeting of strckholders will be held on Wednesday, March 18, to consiaer the propriety of an increase of capital stock.
South Utah Co. will hold its annual meeting for election ef Trustees, etc., at No. 608 Merchant Sit., March 20.
Nevada Co. will hold its annual meeting for electing Trustees, etc., at 608 Merchant St., March 20.
Potosi Co.-Annual meeting will be held at Office, in this city, March 3d.
Aunie Laurie Co. will hold its annual meeting for election of Trustees, etc., March 19.
Santa Rosa will hold its annual meeting, March 5, at Tucker's Hall.
Desert Co. will hold its annual meeting, March 4.
Davey Co. will held its annual meeting, March 2.

## ASSESSMENT SALES.

Texas Co. will sell delinquent shares, on the 14 of March. Meredith Co. will sell delinquent stock, March 2 n .
Coso Co. will sell delinquent stock, March 18.
Moray Co. ( V. City.-Surts for delinquent assessments will be commenced, March 14.
Michigan Co. (Gold Hill) will commence suits for delinuent assessmenis, March 16.
Sales of Stock for non-payment of assessments are advertised to bo sold as follows :-
North Potosi Mining Co.-Sales deliquent stock will e made March 17 .
Peytona G. \& S. Mining Oo.-Sales of delinquent stock vill be made March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Co., 327, Montgomery St., San Francisco, on the 25th of February.

Combination G. \& S. Mining Co.-Sale by E. S. Spear \& Co., at 433 California St., on the 10th day of March next
Lady Bryan G. \& S. M. Co.-Shares of delinquent stock-
holders will be sold at auction for assessments, at No. 400 , Montgomery steet, on Jan. 27.
Desert Mining Co.-Shares of Selinquent stockholders will be sold at auction, for assessmonts, at No. 400, Mont gromery street, Jan. 27.
(emerin, nutices
Jenny Iind (Esmeralda.)--()wnets of ground in this Co. are requestes to call and sign deed of truot at 608 Nerchant St.

Mount Hope Co.-Persons claiming stock are reqrested to present title papers for examination till March 16.
U.S. Mining Co.-All persons claming stock are requested to present title papers for examination at Nos. 7 \& 8 Govermment House.

Caution.--D. M. Tyrell warns persons acrainst purchasirg a certain 10 feet of pround in the Wellington ( $o$ o., standing in the name of J. J. Margee-also 20 feet, standing in name of W. Williams. (See 'Ierritorial Euterprise.)

Ashland Co.-I. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that tbeir westerly drift has cut the Lambledge in the Moss Co.'s ground, from which the Ashlaud Co. is forbidden to extract any valuable metals.

Coso Silver Mining Co.-The Office of this Company has been remored from the Sterenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant atreets.

Henry Martin G. \& S. M. Co- "Thomas Wallace, Trustee." gives notice that whereas certain parties illegally claiming to be Trustees of this Company, huve changed the name of the Corporation to the North Star G. \& S. M. Co., and illegally elected olficers for the same, the public are cautioned accainst such acts, etc.
Tue Sirfeney Co., Gold Hill, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.
The Chmaer Rocr Co., lying next west of the Tirginia Co. claims hare notifed the Hazel Green, Tingley and Biach \& Paxton Companys that they are tresspussing upon the Chimney Rock Co's ground.

## ESMERALDA MINING NOTICES.

The Zenobia Lode Coarpany, give notice that they claim a superior title to the Johnson Co., claiming the same ground, so far as said localities couflict. This ground is a portion of that now held by the Company known as the Wide West Company. The notice is signed by A. Waddell, J. C. Dorsey, S. P. Dorsey and James Elder,

## MINNNG AND SCIENTIFIC PRESS.

THE ONLY MINING, MECHANICL AND SCIENTLFIC PAPER ON THIS CONTINIENT.

## THKRD XEAR: VOLUMIE VL-NEW SERIESI

A new volume of this extenswely circulated paper commenced Scpt. 11, 1862. It is intended that every number shall bo replete with information concerning Minsug, scientific, Blechazical and Industrial pursuits, together witb sereral original engravings, of new inventions, etc., prepared expressly for its columus.
This paper is devoted to the above purposes, together with the interests that may be of interest to the reader. : and it is the iutention of the propretor tospare no pains or expense in makiag it equal in interest and valuable information to any paper yet published.

## The Mining Interest $/$

Will find it of groat value, as it will contain all the news appertaining to Mining, the prices and sales of Mining sitocks, new ioventions of dachinery akinpted to tizat purpose, and of everythug gellerally that may be of sorvice to tho Miner.

## The Inventor I

Will find it an excelient medium for the purpose of bringiog his invention into motice, of ascertatinity the proveress of invention in this and uitier countries, and also of receivivg any information that mathe necessary in obtaining his pateut, the preprictor having had great experience as a
Patent Agent, together with facslities at WasLington that enable him to olb Patent Agent, together with
ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each number will contann sereral oripinal engravings of new machines and iaventions, togethor with a large ammut of reading inatter appertainng thereto. We are constantly
receiving the best scieutific journals fiom all quarters, from which we shall continue to extract whaterer may be of benefit or interest to our readers.
To Chemists, Architects, Millurights and Farmers! This joumal will be invaluable. All new discoreries in Chemistry will be
giren, and a large annonut of mformation of great service to Arclitects and
Millwrights will be founl in our columis. The Farmers and Planters will not le neglectel, engravings will be given of cyricultural implements, and the farming iuturcest gencrally will beamply discussed.

## Texms.

To mail subscribers:--Four Dollars per ainum. Club Rates.
Five Copies for Six Montes, $\$ 8$.
Teu Copies for six Months, $\$ 16$,
Ten Copies for Twelve Months, $\$ 30$,
Ten Copies for Twelve Montbs, 830 .
Fiftent Copies for Twelve Months, s44.
Twenty Copies fur Twelve Months, $\$ 56$.
For all cluhs of Twenty and orer, the rearly subscription is onls $\$ 2.80$
Nanes cau be sent in at diffrent times and from different Fost-oflices For all clubs of twenty different times and from different Fost-ofices
Names cau bent in at secimen copies will be seat gratis to any part of the country.

## EWER \& SMIPH, Pablishers,

Room 27, (formerly) U. S Court Buidine, Corner of Waskington and Ba
tery str'3els, Nau Francisco.

TO COPPER MINERS AND COPPER PROSPECTORS
We hear much said, at the present time, among copper miners and prospectors for copper, with regard to "indica tions" of this mineral. As a general rule our copper miners consider that "gossan" is an in lallible indication, and it is furthermore stated that this "gossan" is found in greatabundance. The following article, treating upon the Gossan of the Cornwall mines, which, we extract from an English scientific periodical may, perhaps, be of value to some of our California copper miners :-
"This gossan, of which I have examined a great number of samples, from the 'Silver Vein Mine' at Lostwithel, differs notably iv colour and general appearance as we pass from one sample to another. Most specimens, however, give a yellowish brown powder, sometimes inclining to red or white. Like all gossans, that from the above named mine, is composed of quartz and oxide of iron, but it is remarkable by the fact that it always cotains a certain proportion of silver. Its densily varies from 2.66 to 2.75 , and its general composition oscillates between the two extrenue results I and II.


The quantity of quartz raries, then, in this gossan from 10 to 85 per cent ; but it passes here and there into com pact quartz, \&c.

I have found that the silver contained in this rock exists in the state of sulphide of silver, combined with sulphide of antimony, copper and iron. The mineral which contains it is fahlerz, or grey copper, and it is dispersed gel erally throughout the gossan, being often invisible to the naked eye But in some specimens where the quartz is compact the grey copper shows itself in veins and plates, and where this is the case the quantity of silver is considerable. Regarding the percentage of metalic silver, I chose the following from a considerable number of assays executed in my labratory during the present year.

These analyses show that most frequently the Cornish gossan gives 0.04 per cent. of metalic silver, or 4 pounds of silver for every $10,000 \mathrm{lbs}$. of gossan, which is about $14 \frac{1}{3}$ oz of silver to every ton of gossan, and that where it passes into compact quartz, showing veins of grey copper, there is a great iucrease in the proportion of silver and a considerable proportion of copper."

If the gossans of California contain silver, even in small proportions as the above, it would be well for the mivers to have all such mineral deposited by itself, as some dayit may be trorked for silver, to a great profit. If not in our days, perhaps it may in those of our grand children. Consequentlg , since the saving of it will cost us nothing, and as a probability exists that we may want it ourselves, it is our duty to act with economy.

Treasure Shipmens on the 21st ult.-The shipment of treasure on the 21st ult was as follows :-
To England.
$\$ 946.55738$
To New York
242,837 66
To nther ports.....
Previously this year.
$43,00000-\$ 1,232,74504$
Total since Jan. 1, 1863. 8,050,146 64

Corresponding period of 1862
$\$ 9,282,89168$

Excess this year 5,947,088 73

Hfaty Mining Transaction--H. F. Wood has disposed of his interest-one-half-in the Independence Quartz Mining Company, at Sierra Buttes, to E. Said, for $\$ 60,000$

## THE "KEITH DESULPHURISING PROCESS."

A new process for working gold-bearing rock has recently been introduced into the Pike's Peak quartz mines, which is described as follows in a late number of the Denver News:-
We have delayed speaking at length of the new gold saving process, until able to give a definite resnlt. It seems that the first report of its operation was greatly exagerated in amount, though not much in proportion-though we have talked with those who said they had handled the gold, and voluntarily vouched for the truth of the report as we pub lished it.
The first experiment, as we since learn, was upon one-third a ton of ore-iron pyrites-from the Gregory lead, which
ha been paying. by the common process of milling, about one hundred dollars to the ton. The new apparatus was six hours in workiug it, and obtained one hundred and sixtyseven dollars and fifty cents to the ton. At the conclusion of the experiment it was found necessary to obtain greater of the experiment it was found necessary to obtain greater power, and operations were stnpped to set op a
engine, which will very soon be ready for work.
The modus operctudi, as explained to us, is as follows :The ore, as it comps from the mine, is first passed through a "stone-breaker," identical with, or very similar to, the machines used in the States for breakiug stone to macadamize roads or streets, which reduces it to pieces about the size of hulled walnuts. It next goes, dry, through a mill similar to the patented quartz crushers known as the "Young Ainerica." consisting of a hollow iron cylinder, not unlike, in appearance, a great griudstone, and of great strength, the inside surface of which is cor. ugated like the griading surface of a coffee mill or iron corn mill. Passing through the centre of this cylinder is a shaft, to which are attached arms which revolve just clear of the corrugated surface above describerl. This shaft is made to revolve at a rate of fifteen lundred revolutions a minute. The rre is introduced through a funnel like opeaing in the side, taken up by the arms of the revolving shafi, and hurled amainst the rough surface of the cyliuder, until reduced to an impalpable powder, when by the draft of the rerolving arms it is driven out through long pipe, into which a flame of iutense heat is introduced In passing through this flame it is desulphurized; the sulphur, arseuic, and other kindred substances which prevent amalgamation, are completely destroyed, and the crushed ore escapes from the furnace ready for amalgamation with quicksilvei. T'o effect this, it is conveyed to a large arasta, which is ined with galvamzed plates. Here it first comes in cont tact with water, and the great revolving wheels stir it until every particle of gold is brought in contact with quicksilver, and is deposited in the form of amalgam. A stream of clear water is then introduced, and all the refuse or tailings is carried off.

Such is the theory and principle of the uew plan. It remains yet to be seen whether the first is perfect in practice, and the latter beyoud improvement. But even with the present result, it seems destined to wurk a revolation in gold mining. It has long been the belief of our best miners that our mills bad, under the most farorable circumstances, succeeded in saving only from ten to twenty per cent. of the gold contained in the gold handled; an opiniun which seems to have been already confirmed by this singular experiment, in which the field mereased more than five fold. We wait anxiously for further tests, and are assured that the next trial will give a still more favorable result.

This "process" is also referred to in a letter from the well known "Dan de Quille," late mining reporter of the Territorial Enterprise, which will be found in another column of this paper. It appears that much is expected from it, by the miners about Denver City.

The principle is not a new one. It was employed several years ago at the Llanelly Works, near Swansea, England, to separate sulphur, arsenic and other rolatile ingredients from copper ores. After a thorough trial, it was found impracticable, and abandoned. No advantage was gained by this process over the usual reverberatory furnace, either in economy or completeness of desulphurization. So far as we can learn, the "Keith Process," presents no advantages over that employed at Swansea. If flames of such "intense beat," as described in the News, are introduced, can they be so regulated as to prevent the melting of the sulphurets, before getting rid of the volatile ingredients which interfere with amalgamation? The Denver paper promises to give, in a future number, further results with regard to the working of this process, which, when received, we shall transfer to our rolumns.

A Profltable Railroad.-It is said that the net earnings of the Panama railroad, for 1862 , have been equal to 30 per cent. on the entire investment.

MINES AND MINERAL INDICATIONS ATONG THE OVERLAND ROUTE.
"Dan de Quille," who recently left Virginia City, by the Overland Route, for the East, is writing to the Territorial Enterprise "Notes of his Trip Across the Continent." The following extracts from his lact published letter contain matter of some importance to California miners:-

I am stopping ar the Planter's House, the principal hotel of Denver. There must be over a hundred regular, board ers at this house and there is a constant stream of transient custom pouring in frum the States and the mines. Here we have the same style of dress and the same faces that we meet with in the mining towns of California and Washoe, and those about us talk of ores and mills. A. Califoruian or Washoeite is quite at home here.
the beaver head mines.
There will be many persons go from here next month to the Beaver Head mines. All who have been there speak well of the mines, and all are going back. A friend from Salt Lake City, representing a Gentile company of that city and $\$ 30,000$, arrived here a day or two since for the parpose of purchasing a mill for the Beaver Head mines. The mill is for one of the veins of quartz I mentioned in my letters from Salt Lakc. 'I'he gentleman has brought most of his teams and will go up to the mines in a day or two to buy the mill. His company already have ugents at wark in the Beaver Head country, looking out to secure good leads. Some ten of the heaviest Salt Lake merchants and capitalists are enlisted in this enterprise. They have more exact information in regard to the mineral wealth of the northern country than any parties here or elsewhere, and know just what they are doing.

## mineral indications on tgr route.

In regard to mineral indications between here and Salt Lake, I may briefly say that after leaving the Mormon metropolis the first quartz country observed by me was that bordering on Silver Creek. This is a belt of mineral country of forty or fifty miles in width, and I think good veins of silver ores might be found within it. After crossing the Weber we have nothing but sedemintary rocks till reaching the Black Hills. The Rocky mountains. Where we crossed then, are purely sedinentary-no sign of any other rocks, or of precions netals. Coal, however, is found in many places, and if looked for, could doubtless be found in nearly every place between Heho canon and the Black Hills. In the Black Hills I saw several veins of quartz, but as night overtook us soon after getting into the range I had but little opportunity for examining the country. I have visited the best mines in the vicinity of Central City, Black Hawk, Nevada City, Eureka and Mountain City; also a number of mills in these places. I securt d-specimens from many veins which I will test on reaching the states, and meution more particularly in some future letter. I may say, however, that I found a great amount of ore almost precisely similar in appearance to the argentiferons ores of the Humboldt, Reese river, and Galena; (Pleasant Valley or Steamboat) mines. Some of these contain a very considerable amount of silver.

The kettit process.
I saw, while in the mines, a dew process. It is quite interesting and I will send you a full description soon after getting lome. I thiak both the crushivg and desulphurizing apparatus will be a good thing in $W$ ashoe.
This "proc. $8 s$ " is fully described in another column of the Press.
Ore Tests.- Several inquiries have been made to as of the different chemical tests that will discover traces of silver and copper in the rock. If our friends who are conver sant with this matter will forward information respecting such chemical tests to us, we will be happy to give thom publicity. [Amador Ledger.

Persons interested in the above will find the desired information, and much more in the same connection, all valuable to copper and silver prospectors, in late numbers of this paper. A remittance of six months or a years subscription to the Mining and Scientific Press, will afford them all the valuable information obtainable from books in relation to prospecting for either silver or copper, and assaying and testing ores of the same. The dissemination of that class of information is the speciality to which this paper 18 devoted, and no mineral prospector in the silver and copper regions of Californja can invest $\$ 4$ to better adrantage than by sending the same to this office and becoming a subscriber and reader of the Press. We shall be extremely happy to receive the names of all who may favor us with cash patron age. We also pledge ourselves at the expiration of the year to refund to any party double the amount of his subscription, who may honestly think he has not got the worih of his money in valuable information from our columns.

GENERAL IMNING STOCK REPORT．
report uf gales
At the Suan Franclsco Mining Stock Board，
For tho troek onding February 2s， 1883.

| Namen of Compraniea． |  |  |  | $\begin{aligned} & \text { 育 } \\ & \text { 苐 } \end{aligned}$ | $\begin{aligned} & \text { 言 } \\ & \text { B } \end{aligned}$ |  | 寖 | 害 | 免 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ashes mocks． |  |  |  |  |  |  |  |  |  |
| Ophir is | 16，800 |  | \＄3000 | ＝ | $\begin{aligned} & 2800 \\ & 3 \geq 80 \end{aligned}$ | $\begin{aligned} & \text { 2825 } \\ & 3250 \end{aligned}$ | 2860 | 2800 |  |
| cintrat | 1．86ut |  | 300 | － |  | 80 |  |  |  |
| （\％） |  |  | 300 | ＝ | ${ }^{683}$ | 800 505 | 576 | 575 |  |
|  | $\because .800$ |  | tu0 | － |  | 260 | 15 | 1：0 | 120 |
| Hale \＆ | 8.01 |  | 300 | － | 100 | 750 |  |  |  |
| Etarsa | 8．uvu |  |  | － | － | 68 | $67 \%$ | 67\％${ }^{\text {a }}$ | \％ |
| ${ }^{\text {Dauey }}$ Buruing sfosc | 8,000 4,800 |  |  | － | 10235 |  | ${ }^{260}$ |  | $\overline{80}$ |
| North Petuest | 2，vou |  |  | － |  | 30 | 31 |  | 43 |
| Kogrers， F | 3，600 |  | 250 | 二 | $\frac{12}{30}$ | － | 12 | 12 |  |
| Marchith | 1，sou |  | 120 | 二 | 62， | 65 | 45 | 40 | 1 |
| mento | 1．800 |  | 600 | － | 65 | － | 60 | 65 | 60 |
| Lacerrue－ | － |  | S00 | $=$ |  |  |  |  |  |
| Suraigo |  |  |  |  |  | 1 |  |  |  |
| Ta |  |  |  | 二 | 120 | 115 |  | 120 | 130 |
| $\stackrel{\text { BI }}{8}$ | 1，000 |  |  | － | 34 | 40 <br> 26 | 21 | 24 | 25 |
| Ia |  |  |  | － | － | － | － |  |  |
| ${ }_{\text {P }}$ |  |  |  | 二 |  |  |  |  |  |
| Burn |  |  |  | 二 |  |  | 45 |  |  |
| Oedar Hill Tunnel |  |  |  | － | 480 | 6 | 43 | 474 | 432 |
| Moumt lavilson | 10，000 |  | 200 | － |  | 6 | 6\％ | 7 |  |
| Wide West stosk． |  |  | BO |  | 345 |  |  | 350 | 355 |
| $\mathrm{A}_{2} \mathrm{t}$ | 1，200 |  | 500 | － | 317 | 30 | 345 | 360 | 400 |
|  |  |  | （100） | － | 41 | 4. 4.4 4 | 㐌 513 | 48 | 1 |
| Etan | 1，200 |  | 100 | ＝ | 10 |  |  | 10 | 10 |
| c |  |  |  | － | 110 3 3 | 117 | 100 | 95 |  |
| Nevada |  |  |  | 二 | 355 | $\stackrel{35}{-}$ | 36 105 105 | $\stackrel{36}{-}$ | 45 |
| cuso 850 ck ． |  |  |  |  |  |  |  |  | 100 |
| Jinephino |  |  |  | － |  |  | 24\％ | 23312 |  |
|  |  |  |  | 二 |  | 30 |  |  | 20 |
| Wilnw Springs－ |  |  |  |  |  |  |  | 30 | 31 |
| Mina Prieta |  |  |  | － |  |  |  | 140 |  |
| Dino Plalre COPPMR STO |  |  |  |  | 50 |  |  |  |  |
| Yapuleon |  |  |  | － |  |  | 32 | － |  |

## stock remarts

## San Francisco，March 2nd 1863.

The activity in atocks still contioues，and another wcek has closed with genernlly advanced rates．We quoto a much wider range of stocks City report，that San Francioco capit 1 is not altogether confined to＂home transactions，＂but also acts a conspicuous part in trausmontane stock oper－ ations．The Territorial Enterprise saya if San Francisco capital dnes no regulate the price of V
demand for thear there．
Ophir has adranced $\$ 100$ during the week and has been cousiderably dealt in．$\$ 3000$ is ollered on 60 days，without sellers，$\$ 3000$ cash would probably bring them out．
Gould \＆Curry have declarod a dividend，for Febroary，of $\$ 100$ per foot carrying over a surplus of $\$ 1000$ to Marel．The stock appears to be quiet －one salc，ouly，being quoted this week．This Company＇s mill is now ruu－ ning 40 stamps，and turting out，according to the Virginia＂Union，＂$n$ ton and a－half of rmalgam，daily ！A year＇s dividead for a single foot of this Company was recontly sold for $\$ 960$ ．The Company now have on hand $\$ 70,000$ ．
Mount Davidsou still continues to be actively de alt in at advanecd rates． The mine is now under the management of Dr．James Delevan．an experj． onced miner．The Tunncl is bow in about 900 feet； 401 feet from the en－ trance a side drift fa run for the Fhncentille vein； 118 feet further on is another for the supposed Gould \＆Carry veir，while still another 13 ？feet be－ ynnd，is runaing for the Octavia vein．The work is progressing day and night．Important develapments are coofdently expected at an early day Burning Moscow stull continuea active notwithstandiag the failure of the jury to agree，in its suit with tho Matterson．The anuouncement caused a decline of about 20 yer cont．in its stock，at which rates buyers were plen－
sacrumento，Charles Caney，and Norton have slightly decline
The Savage，Chollhr，Hinle \＆Norcross，and Potosi，are favoritos among the 2nd and 3d class ntocks．
Esmerands．－A very large business rill conntinues to bo done in Esme－ ralda stocka．These stocks are almost univeraally improving in this mar－
ket．A large number of new companies have recently been incorpora－ ket．A large number of new cumpanies ha
ted to work mines now opening in that district．
One sixteanth sbare in the Sierra Buttos Quartz company changed hands luat week for $\$ 20,000$ ．This mine will pay steadily 4 per cent． 4 moull on $\$ 300,000$ ．
＊ 30,000 ．

TRANSACTIONS IN SHARES，FOR TEE WEEK． nexan Theranax
Ophir－12 at $\$ 2,840 ; 12$ at 2,850 ； 60 at $2,900,30$ ds．； 18 at 2，800： 60 at $2,975,20 \mathrm{ds}$ ．
Gould an Curry－20 at 3，350．
Chollar－105 at $\$ 550$（c）$\$ 610$ ．
Sierra Nevada－1．02 at \＄70＠$\$ 75$.
Burning Mocow－ 10 at $\$ 1105 ; 10$ at $110,30 \mathrm{ds}$ ；； 40 at
10,30 dys； 20 at 75,20 at $100 ; 40$ at $100 ; 80$ at $95 ; 20$
 Potosi－145 at $\$ 155$（c）$\$ 155$.

North Potosi－5 at \＄40； 50 at $31 ; 10$ at $30 ; 20$ at 43.
Sacramento－21 at $\$ 70 ; 80$ at 60 ＠$\$ 72$.
Chats Caney－10 at $\$ 55 ; 5$ at 52 追； 10 at 521 ．
Savage－－5 at $\$ 1,400$ ．
Rogers，F．D．－ 27 at 12 assesements unpaid．
Yellow Jacket－2 at $\$ 250$ ．
Yowa－10 at S110．
Norton－ 5 at $\$ 22 ; 15$ at $35 ; 30$ at $35 ; 10$ at $34 ; 40$ at 30 Cedar Hill Tumel Co．－ 51 at $\$ 5$.
Mount Davidson－ 73 at 87 ； 12 at $51 / 2 ; 25$ at $5 ; 50$ nt 6 ．
Burnside－ 10 at $\$ 40 ; 10$ at $36 ; 50$ at 40 ，b＇r 30 ds．； 10 at
45；25 at 43； 30 at 45； 10 nt 44； 10 at 42；3o at 43；3o at
$43 ; 20$ at $421 / 2 ; 10$ at $44 ; 20$ at 40 ．30）at 40 ．
Hale \＆Nororose－60 at $\$ 700$＠$\$ 750$ ．
Madison－ 30 at $\$ 30$ ； 10 at $40 ; 20$ at 35 ； 12 at 35 ．
Nerada－5 at $\$ 115 ; 10$ at 115.
Recorder－ 20 at $\$ 2215 ; 20$ at $20 ; 30$ at $221 / 2 ; 20$ at 20.
Zouave－56 at $813 ; 15$ at $141 /$ ； 33 at $17 \frac{1}{2}$ ．
Hazel Green－ 10 at $\$ 4 ; 10$ at $4 \%$ ．
Adriatic－ 230 at $\$ 5$ ．Rhodes Diagings－ 15 at 40.
esmeralda mistrict．
Wide West－5 at $\$ 350 ; 4$ at 350,2 at $360 ; 10$ at 350：$c$ at $365 ; 2$ at $3471 / 2 ; 6$ at 350 ．
Antelope－ 10 at $\$ 310 ; 3$ at $320 ; 10$ at 400，brr 30 ds．； 10 at 400； 10 at 400.
Esmeralda－10 at $\$ 54 ; 8$ at $54 ; 20$ at $50 ; 15$ at 50 ．
Real del Moute－7 at $\$ 65$ ； 19 at 70 ； 5 at $40 ; 10$ at 45； I0 at $541 / 2 ; 26$ at 80.
Etua－140 at \＄9＠\＄12．Lord Byron 25 at $\$ 121 / 2$.
Coso－20 at $\$ 20$ ．$\quad$ Hawley 30 at $\$ 30$ ．
Utah－10 at \＄109； 10 at 108； 10 at $\$ 115 ;$ I 10 at 117.
Silver Hill -25 at $\$ 35$ 5； 35 at 3625 at $45 ; 25$ at $46 ; 5$ at 46
Josephine－ 10 at $\$ 21 ; 30$ at $211 / 2 ; 15$ at 22 ； 15 at 23 ；
10 at $24 ; 5$ at $25 ; 10$ at 24 at $; 40$ at $24 ; 25$ at 211,0
Bamboo－ 10 at $\$ 30 ; 10$ at $521 \% ; 5$ at $80 ; 5$ at 70 ．
Willow Springs－ 10 at $\$ 32 ; 10$ at 31 ．
Gov．Nye－10at $10 ; 20$ at $9 ; 5$ at $9 ; 25$ at $9 ; 70$ at 10； 60 at $91 / 2 ; 10$ at $91 / 2$
Cole -25 at $\$ 5 ; 17$ at 25.
Cole－ 25 at $\$ 25 ; 17$ at 25.
Mina Priveta－ 20 at $\$ 150$.
Bullion，Van Horn District－ 100 at $\$ 11 / 2$ ．
Union，Russ District－ 475 at $\$ 3$ to $\$ 41 / 2^{\circ}$ ．
Napoleon Copper Copper stocks．

| VIRGINAA CITX STOCK LIST． <br> ［Corrected Weekly for the Mining and Seienyific Pruns．］ |  |  |  |
| :---: | :---: | :---: | :---: |
|  | sk＇d |  | Ask＇ |
|  |  | Industriou |  |
|  |  |  |  |
| lun．．．．．．．．．．．．．．．．．．． 60 |  | 11 |  |
|  |  | Ni |  |
| Amertcay Dasin c．．．．．．．．${ }^{\text {do }}$ |  | ， |  |
| Belviu |  | Ma |  |
| Ballic |  | Monterey |  |
| dsali |  | stonarch |  |
| Bullion（cousolidated） | 50 | Madison |  |
| Barsiside ．．．．．．．．．．．．．．． 45 | 50 | Mohegan |  |
|  | 80 | North Am |  |
| Beach A Paxtuo．．．．．．．．．${ }^{\text {a }}$ |  | Oneatil． |  |
|  |  | Pride of |  |
| Bioomiged |  | Peytona． |  |
| Cedar Hill Tumn |  | Yhilade！ |  |
| Catedonia ．．．．．．．．．．．．．． 10 |  | Recur |  |
| Cotnet（Simpson＇t Park）．． 50 |  | Sauta Rita |  |
| Cole ．．．．．．．．．．．．．．．．．$: 0$ |  | suna re |  |
| mmercial |  |  |  |
| Consolidated |  |  |  |
| gan |  | st．Georg |  |
| Dayton Compasy ．．．．．．．．${ }^{10}$ |  | Sinaloa |  |
| Decatur．．．．．．．．．．．．．．．．${ }^{5}$ | － | Sierra Nevada ．．．．．．．．．．．${ }^{70}$ | 75 |
|  |  | siierru．．．．．．．．．．．．．．．．．．${ }_{65}^{223 / 2}$ | 77 |
| Ellorrado．．．．．．．．．．．．．．．．． 5v | 55 | Sigel． |  |
|  |  |  | 10 |
| Eve＇dy Star Argenie Uis＇t 30 |  | O．S．Biniug Compa |  |
| Empire Co．（siptiag Val．）．．${ }_{6}^{25}$ |  | Union Mining $\mathrm{cos}_{0}$ ．．．．．．．． 15 |  |
| Governar N |  | U．S．${ }^{\text {U }}$ |  |
| Gonden Gate |  |  |  |
| Grass Valley．．．．．．．．．．．．． 10 |  | Virsiuia |  |
| Giuden Eitgle ．．．．．．．．．．．．． 10 |  | W．shiogton |  |
| Hazel Grceo ．．．．．．．．．．．．．${ }^{5}$ |  | ${ }^{\text {Yorri．．．．．．．．．．．．．．．．．．．．}}{ }^{5}{ }^{4}$ | 250 |
| Hawkeye．．．．．．．．．．．．．．． 20 |  | Zouave ．．．．．．．．．．．．．．．．．．． 15 |  |
| Irving．．．．．．．．．．．．．．．．．．．－ | 15 |  |  |

## WASHOE STOCK REMARKS．

［Compiled from the Daily Terrftorial Enterprise．］ Tokspay Eventigg，February 17th．
The wires between Virginia City and San Francisco have been down to day，and，as a consequence，transactions bave been rather limited．The evquiry of＂What are you pasiug for to－day？＂has been answered by
the brokers with＂The wires are down．＂If San Francisco capital does not regulate the price of Virginia City stocks，it in a groat moasure creates the demand．Burnside，which gave such promise of fluctuation yesterday，has been ominously quict to－dny．Hoiders are afraid of selling at a price too
low，and brokers，in the absonce of advice from the Bay，are not disposed to risk much of an advance．It is sparingly offered，however，at $\$ 60$ ，with－ out takers．There continues to be some dealing in Yellow Jacket at $\$ 175$ tol
$\$ 200$ ，and in the Union at $\$ 14 @ \$ 15$ ．The case of theso two companics will $\$ 200$ ，and in the Union at $\$ 14$（3）$\$ 15$ ．The case of these two companics will
scarcely be reached this term of Court．There is a lull in Zonave，but none can be had for less than $\$ 10$ ．An advance is anticipated by holders．Bul－ lion is in request，and large quantities might be disposed of at our quota lions of yesterday．We quote Yollow Jacket at $\$ 17 \overline{\text { L }}$ Lo $\$ 200 ;$ Union at $\$ 15$ ； （a） 37 ；Oriental \＄4（1）\＄6；Harol Greon \＄t＠ 85 ；Bolviders $\$ 3$＠$\$ 10$ ；Beach A Paxton $\$ 35$（13）$\$ 40$ ；Pride of Washoe $\$ 15$（a）$\$ 20$ ；North American $\$ 1$（6）
Wednesday Evenive，February 18 li. Something substantial has been aone in stocka to－day．Many of the la
gest transactions，howevor are not mado public．Thero has been much ac－ tivity in Buruside．San Franciscu operatora avem suspicious and touch sparingly．The highost offer to day has been $\$ 60$ ．There is little in mar－ ket，Lowever at theso figures．There is a largo domand for Zouave at $\$ 10$ and 12 bas been offerod．Moseow has beeu in request at $\$ 10$（3）75，but as has been some dealing in Bullion nt our quotathus of yesterday．Yollow Jseket is iu demand at $\$ 175-200$ is asked．Uoion is anleablo at $\$ 13$（a） 15. Winu，the principal owaer in the Irving，ts exhibitiog very，fair looking ore from that claim．It is limited in quantity，however．With the exceptions uoted，our quotatlons remain at our figures of yesterday．

## Thursiday Evrniwg，February 19th．

This has been one of the most stormy and disagroeable days of the sea－ son，but trade has been quito active novertheless．After slumbering for Six months，the Cole ruddenly awoke to notice，to－day，aud a number of Franclsco operators．Burnside has been inactive nad is evteontly on the deoling．There bave been no offern for it to－day．Texas is advanoling at a moderate pace，and selling at $\$ 5$（＠） $5 \frac{1}{2}$ ，assessmeuts paid．Bulliun is in continued request，and 50 foct changed hauds to－day at private rates，In Zouave there ss stll some denliog at $\$ 11$（a3）12．This stock can rendily be sold at these tgures．Oriental as meeting with some favor，and huldera are expectiog to cut the ledge again in a fow dnys．It is still in the markot， rates，but little or none is offering．Fifteen feet Uuion sold at $\$ 15 ; 5$ feet Birdsall sold at $\$ 20 ; 20$ feet Texns at 5； 150 feot Cole at 20； 10 feet Pride of Was hoe at 15； 25 feet Sinaloa，Gold Hill，at 8 ．This latter Company lias recently struck what is supposed to be the south extension of the Crown Point Ledge，and holders are looking for large figures．

Frinay Eventig，February 20th．
Tbere has been considerable lifo in stucks to－day，and the promise for to－morrow is better．The demand for most stocks of accepted value es－ eceds the supply．Such a condition of the market in of courso exceoding－ ly gratifying to bolders，and speaks well for the estimation in which our milues are held．Burnside has been inactive．Operators are careful，and holders nervous．Fifty doilars is the most that has been offered，and this sparingly．But little has changed hands．The Milton excitement seems to havo subsided，aud operations in the stock have apparently coased．We cannot pretend to quoto the price．Bulliou is in request at $\$ 30$ ，but litte can beobrained at these figures．Tho Pride of Washoo is advanelng，and caunot be quoted at less than $\$ 25$ ．Wo havo befrere us an assay of ore from this cluim which shows $\$ 216$ to tho ton－$\$ 171$ in silver and $\$ 45$ in gold． Sicramento is in demand at $\$ 60$（a3）65－about the Bay rates，It is held frm， ly at higher figures．Beach and Paxion is in request at $\$ 40$＠ 50 ，but nove is to be had at these rates This is a small claim of 233 icet，and bold－ ers are lonking for a wild adrance．Nortod is inquired for，as woll as its paid．Within the past ten duys this stock has a dvanced frum $\$ 150$ to $\$ 7$ per share．Fifteen dollars is offered for Zonnve，to fill orders from below， and thare is some inquiry for Gov．Nye at $\$ 5$ to 6 ．There is somo talk of a strisc，or all approaching strike，at Flowery Hill，but we can trace the re－ nort to nothing reliable．The Sauta Rita Company struck the ledge in their tunnel iu Spanish Ravine，north of the Cole Company，thts morning．Five specimens of sulver were tuken out．

Saturday enemavg，Feb． 21.
Stock transactions today have been quite unmportant．Burnside is
quiet－very vuiet－with no bids of momeut．It is offored in small lots at quiet－very vuiet－with no bids of momeut．It is offered in small lots at
$\$ 45$（s） 50 ，whthout takers．Bullion is exceodingly active．Ffty feot sold this morning at $\$ 30$ ，and in the afternoon $\$ 35$ was freely offered for large and small luts，without accommodation．This adyance is owing to no excite－ ment．The location and prosimity to the ledge seem to be the basis of the aulmation．Texas is still in demand at $\$ 7$（1） 8 ；and $\$ 10$ it is reported has been offered．Sacramento continues in request at $\$ 60$ to 65 ，with little off－ eriug．Thore is less inquiry for Zouave，but the stock is generally hold firmaly for an advance．It may be quoted at $\$ 15$ ．There is a light de－ mand for Cole at $\$ 20$ ．No transactions in this stock are reported to－day．
－gr\＄＇molaxigs ？plos alam 700 I




 Kтu 71 ＇ 99 （0） 985 \％


 ＇\＆＇qay＇ounast syanolf

## ESMERALDA STOCK LIST．

［Corrected Weekly for the Mining and Scientific Press．］


## From our Edition of Feb 10th <br> MINING EDUCATION.

In our last issue we referred to some of the disudvantages under which the California miners, as a class, labored by reason of the lack of a proper Mining Education. We also adverted to the fact that the popular antipatioy against the application of science to mining, which wasso prevalent among California miners, six or eight years since, has lately been pretty much laid aside. It is now very generally conceded that an empirical knowledge of mining is not the way to succeed in that difficult and uncertain branch of industry. The occurrences connected with the discovery and development of our silver and copper mines have produced such a change in public sentiment that, at the present day, it is rare to find a man who will openly avow, even if be secretly entertains, a beliaf in a necessary antagonism between theory end practice. Practice and science have now joined hands in the mines, and the time has passed when the former will venture "to go it blind" in the vain confidence of shallow empiricism, upaided by science.

The attainment of a passable mining education, when proper facilties and instructors are at hand, is not a work of so much time and study as many suppose. The dificulties .and mysteries involved in becoming an expert in planning and working a mine, and in acquining a practical knowledge of their geological and mineralogical characteristics, are no greater than are to be met with in many other subjects in the usual programme of practical and theoretic education. Experience is the foundation of success in all human undertakings; but the only value of experience is the facility which it affords us to deduce from previous results, a knowledge by which to overcome uev or greater difficulties. This is identical with the inductive process of the man of science. But he that confines himself to his own limited experience, shuts his eyes against the lights of science; and, in despising the experience of others, he will soon find himself burried in the darkness of empiricism, while those who have entrusted him with their business will surely behold their undertakings enveloped in a labarinth of difficulties, which must sooner or later result in common and promiscuons ruin.
A large mine is a complicated machine, and we might with quite as much propriety place a ploughman, with no mechanical experience, whatever, in charge of a double cyl. ender printing press, as to place a man, whose experiencein mining is confined to what he has done himself, in charge of a mining operation of any magnitude. The art of mining involves ar general knowledge of mechanics, surveying, mineralogy and geology. To understand working a mine-boring, sinking, pumping, winding, stopeing, hauling and ventilation a tolerably correct knowledge of every leading principle in mechanics is needed. Without such knowledge the miner will find it impossible to decide apon the most economical means and arrangements for transport either in the mine or on the surface, the kind and capacity of engines needed, or the character and class of maehinery best calculated to perform the work before him. Laying out the work propererly, each part with reference to another, requires a knowledge of surveying. To ascertain the proper place to sink shafts, involving calculations of the dip and strike of strata, prubability of water, faults, \&c., implies a knowledge of geology : while by the aid of mineralogy only, can he determine the nature and va!ne of the minerals upon which he is working, or which may chance to come in his way. On a correct conclusion with regard to each and all these points depends the success of the undertaking. The employment of experienced men.with liberal salaries, to superintend works of this description may safely be predicted as uniformly resulting in larger dividends to stockholders, and increased safety to mine and workmen. Experience, coupled with a proper application of science, is the only foundation of fitness for the pasition of Mining Superintendent. The lack of these requisites has cost English adventurers millions of pounds sterling-sometimes in the faulty opening of a mine, at others in the lack of mineralogical knowledge for determining the value and character of the mineral when found. We gave several instances of the latter in our last issue, we might multiply instances of the former adinfinitum.
It is to the lack of this latter information that we must atribute the delay in the development of the silver and cop.
their existence should have been known as the result of actual explorations.
There is but one way to remedy the evils here passed in review and provide our State with a competent corps of mining engineers and superintendents- $A$ School of Mines must be established under the patronage and partial control of the State. An institation of this kind is absolutely necessary to a proper development of our resources. We need it as a collector and conservator of mining knowledge past and progressive. We need it as an institution for the general diffusion of information in this branch of indastrial science. We need it as a place where the working miner, the proprietor and the engineer may be drilled and schooled in the art of mining, in all its bearings. Such schools have long been in existence in nearly every country in Europe, where they are fostered with the greatest care by the different governments. We shall endanger our reputation as- a progressive people if we much longer delay a movement in this direction. The losses of property and misdirected outlay of capital already scored up, (to say nothing of the sad loss of life, and laid at the door of imexperience, would have litherally endowed half a score of such schools.
Our State Geologist, in his address before the Legislature two years ago, adrised the early establishment of such a school. We have now a Legislative Committee on Mining. Is there any more important matter which can come before them than that which we are now discussing?. Huve they ever thought seriously upon it? If so, or if not, heretofore, why would it not be well, at the present time, to prepare the general outlines of a plan for such an institution, and let it go before the people, with. a legislative endorsement, for future consideration.
Legislators are quite too prode to think that when they have enacted laws for the creation and collection of revenue, for the collection of debts and the panishment of crime, and, perchance, performed the herculean task of electing a United States Senator, they have fully discharged their leg. islative duties. They forget that thereare other equally, if not more important duties to perform, in providing the means for properly educating the adult industrial class of society. This is universally done in Europe, at least to an extent sufficient to proride competent directors for all the great industrial interests of the land. We have neither time nor space to say more uader this heud than what will be merely suggestive ; but we hold that it is quite time our Legislators should take this matter under consideration, and initiate some steps toward an ultimate, accomplishment of the end in view. The present "let alone" policy must ineritably continue to result in serious losses, both to individu, als and the State, and we shall be fortunate indeed. if our chief industry is not thereby soon completely burried in the darkness of that empiricism in which it is already so sadly floundering.

## From oua Edition of Feb, 16th.

## MINING INCORPORATIONS,

Nolwithstanding the attempts at editorial pleasantry that are so frequently indulged in by our contemporaries, at the lengthening list of miniug Companies, and the cumulative exhibits, of the many millions of capital which they represent, "oc paper," each passing month brings additional evi dence that this wealth is far from imaginary. The constantly increasing values of the figures which appear in our weekly stock reports, appended to the leading mines on the Eastern Slope, are stubborn facts, which must soon make plain to the most unbelieving that the footings of the aggregate "capital," placed" as a value upon the raines now in progress of development, are not much too high. Imagination can scarcely form any adequate cenception of the mineral wealth, which is soon to be developed on the Eastern Slope, and throughout the entire leng̣th and breadth of the "Great Basin," whose Western and Eastern rims are formed by the rocky slopes of the Sierra Nevada and Rocky Mountains. Several of these earliest formed Compauies, which, in the estimation of the great mass of people at that time, fixed their capital stock at an almost fabulous figure, have already reached the immediate vicinty of their incorporate value and their stock will no doubt, ere long, be quoted at a hand-
some percentage "above par." Indeed, one of them has already exceeded its par value and is quoted to dlay at more than 60 per cent. advance.

Numerous others, second and third class mines, are making such favorable developments, at the prosent time, as give good earnest of an early approximation of their stock to par value.
A few years since scarcely a merchant in San Francisco could be induced to invest a dollar in any mining enterpriae. To do so was to lose caste, and endanger one,s credit "on change." Even our foundrymen, could not be induced to invest a dollar, in a business to which they were then, as now, indebted for almost their entire business. Now things are entirely changed, and one can scarcely find a mau in Saik Francisco who does not own "feet" in some mining clajm.
What matter is it if a large portion of these projected companies should fail? All, or even a majority cannot hopo to succeed. A sufficient number, however, will prope so remunerative as to return a handsome aggregate percentage on all the money invested. Hitherto the chief lurden and losses attendant upon opening up the mines of California, have fallen upon the mining community almost exclusively, while the commercial and agricultural interests have been greatly profited at no risk. It is one of the cons ditions of mining, everywhere, that many individual losses must occur, which, however, are always made good in the general aggregate of profits; and it is oreditable to the mer: cantile interest of this city that it has now taken hold of the matter of developing the mines of the State and is freely pouring out its capital for that purpose. The aggregate of these investments cannot fail to be highly remwnerative, and will reward the loosers even, in the increased business which They will create and concentrate in San Francisco. This city owes its very existence to the mines, and it betrays a feeling of selfishness in any man of means, to refuse to do his part in developing the interest upon which its prosperity depends. Every new Mining Company, Fhose organizab tion is announced, is evidence that a new mbue has been discovered, and that somebody intends to spend a little money for its development. Every such item is a matter of encouragement, and indicative that the great interest of the State is progressing. We trust the day is lar distsnt when we shall fail to find in each morning's paper the annoucement that some new mining organization has been effected during the previous day.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign countries. Four patents-American, Evglish,French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are sucb, that patents can be obtained abroar almost as easy as at home. The majority of all patents taken out by A mericans in foreign countries are obtnined tbrough the Mining and Scientrarg Priss Patent Agency. Having established ageocies at all the principal European seats of Govern. ment, we obtain patents in Great Britaid, Frunce, Belgium, Prussia, Austria, Spain, ete., with prumptoess and dispatch.

Models are not required in any European country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse

When parties intend to tak out foreign patents, engravings should not be published until the foreign applications bave been made.

Caution.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against beeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent at home.

While it is true of Most European conntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal ex amination; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrast a raluable invention to any other than a solicitor of known integrity and ability. Ioventors should beware of speculators, whether in the guise of patent agents or patent brokers, as they cannot ordinarils be trusted with valuable inventions.

## LOWER CALIFORNIA Golonization and Mining Company. <br> THE AEETS SENT TO MEXico RY <br> 125,000 Acres OF IRICII AGRICULTURAL LAND, <br> \section*{and a valuabla shiver Mine,}

 The Company in now nrepared to furnisl! exret infor-mation of Culonista who lave alruady enguged, or Chose skout th eagage in this

## SPLENDID ENTERPRISE.

 NO TIME EIOLLD BE LOST BY COL,ONISTS.
Farmors Miners and Mecbanics, With famblios are particularly fuvited by the authoritios of the Territory. The land selected, in poiat of for tility of asil, is not exended un the Continent. The climitels unsurpitssed it the world. The rienast silver Wians known to exiat is the Torritory arm in the immediate vichatty and bortering on the agricultural lands of the Colony.
N. B. Bear in mind that a sharo conta, at presont, only $\$ 200$, which ontitles the holder to ireo transportis ton for setf, family, and articlez of personal uso and an - equal share in thu land, the Compaoy's Siiver Mioe, ete the whole eutorprise, being for the autual beafit of mimbers only.
Full information can he had, aud Mineral and Cotton Specimans spen, by applyiug at tho Oince of the Cowpa by, North.west corner of Clay and Frout Strect.

BOARD OF TRUSTEES.
A. G. RANDATL, Presitent.
 O. F. GEARTCKE, Serotary.
 Camuittee on survey, -E. KıC
Capt. R. C. Andorsws, Surveyor:

LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, aud the public surveys of the State of California for 7 years,

## ALSO

STATE LOCATING AGENT.
And as such laving the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1, \$ 5$ per Acre.
Terms-Twenty per cent in eash and the balance ou a creltit of several years. Express Building, N. E. cor uer of Muntgomery and California sirects.

HAYNES \& LAWTON, BIPORTERS AND DEALERS IN
CROCKERY, GLASS WARE,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery, CLOCKS Silver Plated and Britania Ware, etc., etc., Etc.
NO. 516 SANSOME STREET, [CORNER OF MERCHANT,]

## Attention! Attention!


 Solationa yu our clty. The tract is kuowha as the "Livi
 tract for the cir College Building nut Purk- This propert is more beautiful than any other ever offored in this
murket, aud its locations is such thut it must in the "1n murket, aun its locations is such laut it must in the na-
tural prukriss of improvement suion be in preat demnud for phacen of residence, That thiy property will inerenas
in value, is as certain as the future of san Eradireo. Invertments in Real Estate, it is woll known, have
 of drpreceation tu value is suc
if ticrease of our pulualation.
id focrease of our poplulation. Inven inf Real Fstate, ind your moro prontaHo than investug it widd-cat miniug stuck, or lowiug
money that may be paid in tepreeintent currency.
 form until after the holitays-that is, withoat iutorest. Thw eitle wh the lant in pir fivety
For further particulurs apaly to HIRVEYS. BROWN, No. 19 Naglee's Building.
Litlingraphice Maps can be seeu and had at the nibnv
no 13 gmo
named ullce.
A. ROMAN \& Co.,

Book Establishment,
417 and 419 Montgomery strect, SAN FRANCISCO.
Orders respectiulty solicitad and pronptly attenderl to.
Truatise on Metallurgy, Comprising Mining add Gen.

eril and Pattichatar Motallurrgical Oporitions, Etc.
Etc. By Frederick Overmam.
A Mana.11 of Mytallurgy, or A Pructical Troatise on the
Ohemtarry of Metils.
Records of Mining nud Metallurgy, or Facts nad Mem-
orinda for the Uso of the Mine Agant and Smelter.
By James phillips and John Darrington
By James pliblips and John Darlington.
Canual of Metallurgy, more particularly of tho precious
metals; but ieclud ing such obliors to are omployed
metals; but includ ing such othors us are omployed
Pigqo on the Chemises.ry and Mining of Copper.
Practical dineral Assayiur and Mining,
Practical dineral Assaying and Mining, Overman. Golld Minity and Assaying; by lhipgs.
Misers' 'Companion avd Guido, compriced by Silversmith Assnyers' Guide, or Practical directious to Assayors, MiPractical Assaying, by Mehell.
ilver Ores und silver silues, by Pro. Blako.
 Weisbacll's siechanics of Macthiaery and Engineering
Nevillo's Hydranlic Formala Tavies. Nevilto's Hydranic Formala
Fresenius' Chemical Analysis.
Together with many other works in this and similar lines
14. Books imported to order on short notice. Tos A. ROMAN \& Co.

417 \& 419 Moutcomerv Street.

READ THIS!
COAL, otl expl.uston.-on saturday evening, Street House in nouriog coal oil from one can to another, his wife imprudently a pproached will a lighted candlo and the oil exploded. Mrs. Browster's arms were budly
burned, as wero also the huebands hands. burned, as wero also the huskands hands. Hewever,
Les succeeded in mastering the Hames, und preventing he succecded in mastering the limes, aud prev.
worso oonsequenoes.-[Evening Bulletin, Aug. 4.

## THEN THIS!

Comet Illumitating 0il!
Manufactured expressly for Stanford Rro. Brand of Kerosene
Is warranted frece from Camphene, Petroleum, or any
other explosive nuiterial, zud sis tio
BEST FAMILY OIL IN THE MARKET STANFORD BROTHERS, Nins. 121, 123 and 125 Califr-ain strect.
Зur $\mathfrak{B e a f f t u t t}$ furr ©rfinder.
Erfinber, meldje nidjt mit ber englifdjen Sprade befannt fint, fönen ifyre Mitthungeneil in ber beutjdien Spradie madien Stizzenbon Eyfintungen mit furzen, beutlidi gejdricbenen Sejdreibungen betiebe man zu aboreffirentan.

$$
\text { J. SILVERSMTH, Exchange Building, Roon } 23 .
$$

## Gird's Budding Knife.

$T$ mantinyton or tarimrs, horticoliturists
THE ATTENTION OF FARMERS, HORTICOLTURISTS
and Cutlers, or manufturers of Horticultural
Implements, are referred to the above invention. For Implements, are referred to the abovo ivention. For
fescription and engraviog see Mining AND Screntirc
Press No. 24 , vol. 7 . Press No. 24 , vol. r.
Stato, Territory and workshop rights for sale at rea-
sonablo prices. souablo prices.
Addres,
Publishers of sfining \& Scientific Press,
(Agent for Patentee, sepl-3m
$\begin{gathered}\text { Agent for Patentee, } \\ \text { Sau Fraucisco }\end{gathered}$

The Occidental Hotel
is Now
Open for the Reception of Guests.
THIS HOUSE HAS ALL, THW MODERN IMPROTE
 been fited up with spermal reference to the comfort aud convumieuce of the publio generally, haviag a

## News Stand,

OABINET FOR MINERALS ALSO
A Branch Telegraph Office, Connectiog with all the limes throughoulthe conotry Lemis Leland \& CO-.
San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC!! MUSIC!!!

A. KOHLER,

IMPORTER OF EVERY DESCRIPTION OF Musical Instruments \& Musical Merchandise SHEEL MUSIC \& M'SICAL•BOOKS. GENUINE ROMAN STRINGS, \&o.,

Lighte's New Patent Insulated Iron Frame is prit into all of
Lights \& Bradbdry's Overstrung Pianos.
Wherever these instrumenta are koown they
RANK AS THE FIRST AND BEST
Initone, delicacy of touch and durability.
All the leading Musicians of the country have
testified to their superiority.
A. KOHLER, Agent for the Pacinic Const.

MELODEONS AND HARMONIUMS from tee celebrated hanufactory of MASON \& HAMLIN,

## Warranted superior to all othors.

nen. Send for a catalogue and Price list.
_ A. Komer, Agor.

## To Mill Owners.

W INTRD, by a person fully competent to the position,
a situation as MINNG SUPRRINTRNDENT in $a$ Gold or Coper a situation as Mining Superintreneyr in a Gold or Copper Miag. The Applicunt was eugated for a bout eight yeara
as Superintendent of Copper Miniog Works in Cornwall, and tats ucted in the same capacity in Golli Mines in this State for the past seven years. He has had much expe-
rience, in Corawall, us ali Assayer, a Dlachinest, rience, in Cornwail, us and Assayer, a Machinest,
a Draughsmen, a Surveyor and an Asorter of Copper
 or tho positiou he sceks
Apply at this Ofice.

## W. T. \& J. GARRATT, City Brass and Bell Founders

 Cor. First \& Mariket sts., San Francisco.B abil metal castings, fire engines, force erra and Hand Bumps, Church and Steambont Bells, TavGauge cacke, Cylinder cocks, Oil Glookes, Steam Whislos,
HYMRAUIC PTEES and NOZYT, POESA, Iron slean pipe furnished with fitings, \&o.
CSUPLING JONNTI COUPLING JIN'SS of AIS syzas. Manufacturers of "Gar
rate's Patent Improved Jouroni Mctal. ratts Patut timproved Jourais ist inal:

## SQUARZA'S PUNCH,

FIRST PREMIUM
at the sacramento agriculioral state fair

## FOR 1862.

ALSO F FKRST PREMIUM
t the San Francisco Bay District Agricultural Fair, 1862
Mandeactory, wholrsale afd retall,
No. 44 Leidsdorfi street,
Opposito the What Cheer House, San Francisco
LATEST IMPROVEMENT
in Ladies' Buckles.







GREATREDUCTION in prices.
STANFORD BROTHERS, 121, 123 and 125 California Street,

Keep the Larrgest Stock of all Kixds of Lamp Stock And will Sell Cheaper than any other
House inthis State

Lamps, Chmineys,
Wices, Camphene,
Burning Fluid,
Alcohol, Coal Ort,
I'urpentine, Keroskne Oll,
COMET ILLUMIIATING OLL,
Sperm Oit, Lard Oill,
Machinery Otr,
Rape Seed Oin,
China Nut Oil,
Polar Oif,
Linseed Our, Raw and Boiled,
Seare's Oll,
Neat's Foot Oil,
Tanngrs OIL, Etc.
Our custnmer in particular, and the country trade ganerally, are requested to ascertalu our prices before purchasing from traveling agenls, as we will ach at less
rates than they can alford to.
aulete

## 60 lbs, MIARINE AND

Fire-Proof Paint,
M ${ }^{\text {WNUNACTURED BY THE PACIFIC METALLURGICAL }}$ From ground Miueral Rock contains Arsenic, Copper, Litharge and six other Minerals. Wheu used on the Dccka or Boltnms of Shppe, it is equal to a coat of Stoue, and
quite equal to Copper, no warms will ever effect it, and quite equal to Copper, no worms will ever effect it, and

## DIRECTIONS:

For Decks of Ships, use two parts Mineral Paint, ene part White Lead, mixwith Liuseer Oil. three parts Mineral Paint, mix with Coal Tar and apply it hot. Fale by all Ship Chaudlera and Tradesmen, in boxes For sale by all Ship Chaudlera and Tradesmen, in boxen
of 50 lbs . cach, or by the Pacifc Metallurgical Works.

## 25 POUNDE FGRE=PROOF PAINT.

When used on Rooff, Buildiags, or Fencen, it is equal Fire Proof and coasting less than any, being perfecty Fire Proof, and ceasting less than any paint.

DIRECTIONS:
HOUSE :-Mix thr ee parts Miveral Paint with one par manted, mix less paint, moro lead. ROOF :-Hive parts of Mineral Paint, one part white Lead; mix with Linseed oil. Put it thick oil a tin Roof as one cont when properly appliedwill last threo years. G. T. Fouqug, Superintendent.

WORXS, North Beach; Offioe, 318 Callfornia st., Snn Frameisco.

## WRIGHTS PICKS.

JOHN WRIGHT, of Sacramento, has establisned himself in San Francisco for the manufacture of every description of liciss, of the best material, at reduced tity, at low rates Oiders from the country promptly attended to. N. B. - None genuine unless stamped with my name. ., JOHN WRTGET, 511 Market street,

Opposite Battery, San Francisco,

## REMOVAL.

OFPICE ON mhe Padinic mientalsHaving ealarged our Works at North Beach, We are Now canabled to reduce from 10 to 15 tons of Silyor or
Gold rock por day.
Gold and Silyer ore, and Sulphuret Assayels', or Silversnuiths' sweepings reduced or purchaseu.
COPPCR OBES-Highest market ratas gdvanced ia cash, for silipments. S. C. BRADSHAW, Agent,

## SPECIAL NOTICE.

JEW EL G. dt S. M. OO. The Annual Meeting of the Jewel G. anu S. M. Co. whll he held at the office of the Company, 612 Merchant street, ou TUESDAY, March 3,1863 , at 11 o'clock, A. M. By order,
J. ARMETRONG, Scc.

## Instruction in Assaying, Etc.]

A SCIENTIFIC AND PRACTICAL CHEMIST NOT HAVA SCIENTIFIC AND PRACHCAL CHFMIST NOT HAV-
ing the whole of his time occupied with his pres-
ent husiness, is prepared to teach the warious branches ent husiness, is prepared to teach ihe various branchos
of Chemistry aur Metallurgy, is willing to teach the of Chemistry aud Metullurgy, is willing to teach the
method of assaymg Gotn, Smver and Coprer, alone, or method of assayng Goun, surse and Corpre, alone, or
to teach the regular systematic course of Qualitative or Quantututive CLemistry.

$$
\begin{array}{cc}
\text { Address, } & \text { T. P. } \\
\text { Post Ofice, } & \text { Box } \\
\text { No. } 167 .
\end{array}
$$

W AnTed by an Intelligent and active young man livelihnod. He is about 18 yoars of age, and is honest pemman. Euqureat this oflice.

## Miner's Foundry

MACHINE WORKS,<br>First St., between Howard \& Folsom, san francisco.

E VERT DESCRIPTTON OF TRON AND BRASS MACCHIn wery, the Bestand Minst Econnmical, manuracclured In the state of Californin, will be furnished with dis-
putch at the Miner's Foundry aud Machine Worls, as: STEAM ENGINES AMD BOILERS, FLOUZR, SAW AND QDAPTZ MLLL MACHINERY, MHMNG PLMPS, amalgamators, betorts, etc., ETC. Particular rattention will be given to the manofacture
of Particunr attention win de given to the manuracture
of Jachinery in Setions, desinnod frop places of difincult
sccess, Varioun mudels of Quariz Crushers, Amalgamasecess, Variour models of Quartiz Crusbers, Amalgama-
tors and Water Wheels-some in operation and on exhitors and
bition.
*** Parties desiring to test their ores practically, in
maill quantities will be aforded ample facilities, free or cost.
All parties desiring accurate and higbly finisbed draw inge and superior machinery, at most reasonable rates
are eordially invited to call bofore contracting elsewhere HOWLAND, ANGEL \& KING.
San Francisco, February 23, 1863.

## VULCAN IRON WORRS CO.

## P. TORQUET............... . MANAGER.

R. TVERS. C. R. STEGGER. S. ATTKEN.

## Steam Engine Builders,

Boller Malcers, Iron Founders and General Engineers,
Nos. 137 \& 139 First Street, -.... Shat Francisco.
Steamboht Machyerry built and repaired ; also Saw, etc. $\begin{aligned} & \text { etc.. } \\ & \text { etc., } \\ & \text { etc. }\end{aligned}$
Proprietocs of Morse's Patent Fire Grates, Jorval, Fournsyton and other Turbine Water Wheels, with lateit improvements.

FREDERICK KESMODEL, Cutler \& Surgical Instrament Maker 817 KEARNY STREET,
Between Jackson and Washington streets, SAN FRANCISCO,
$\mathrm{R}^{\text {ECETVED a diploma at the Fair of the Mechames' } \mathrm{In} \text { - }}$ R stitute, September, 1858 , also in Sacramento in The attention of thane atticoryd with HIRRNIA, or Rup
ure, ort auy oue interested, is called to his new meth od or fitting and adaptiug Trusses to the difrerent cass It is a well known fact that there has as yet becn vo sy temo of filting Trusses. There are many dilferent syy
which have proven good in many cases, but they are Which have proven good in many cases, but they are
uucertain and cranot bo $r$, lied on and in severc cas are altogether useless. The followiag are some of the advantages I claim for these Trusses ajove any and all others: First-The Pad is formed or the parts to be compresscd by takuag a plaster cast. Secund-Haviug
a correct mofiel, it ennbles nue to make the Pad of nuy a coirect montel, it enables me to make the Pad of any
denirable manterint, such as hoon, ivory, etc. Third- The
Pad is so adjusted to the spriug that uo movement or Pad is so adjusted Lo the spring that uo moverent on
the body will move or displace it. There are many other advantages. Examiae nud judge for yourselves. ap3 tf Inventor aud Patenté

PALMER, HANSCOMB \& CO,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Fxancisco,
Furnish Castings and Machinery of all kinds

Genuine Weite Iron Shots and Dies. PALMER, HANSCOMB \& CO.
To Quartz Miners.

## Knox's Improved

AMALGAMATING PAN, WITH
PALMERS' PATENT STEAM CHEST. $T$ He above combinaton secures the most 1 conplete amalgumation of tho precious metals of auy process now known,
By it steam is intrond
By it steam is introndued in the most effective and eco-
nomical maniner, nomienl mauner, while it is peevllarly adapted to the
catchiug of luating gold and silver, kuown to bo other-


PALMER, HANSCOMB \& Co.
Gowden STATE IRON WORKS,
Nos. $19 \& 21$ Frst Street, San Francisco.
The public are informed thint Lettors Patont have been grauted the undersigued upon Steam Chest False Bottoms, for the ibside of Amalgamating Paus or Tubs, and
arc cintioned aganst making, buying, using or selling arce cintinned against making, buying, using or selling
the sumo without his consent.

FULTON FOUNDRY \& IRON WORKS
HINCELEY \& CO., alanuacturebs of
Steam Engines, quartz, Flour and Saw Mills; Cast Iron Fronts, for Bulldings, Mining Pumps, and all kinds of Machinery, Efc., FIRST STREET
Betwien Market and Mishov...........SAN Francisco.
*** All kinds of fron and brass Castrag furnishod nt sliort notice, Every style of Fisisishses to Irou when
cast. Repuiring or Machinery weaty cast. Repuiring of slachincry neatly done. Prices low.
PATTERN MAKING in afl its various forms. D. B. Hivokiey. Wa. ह. Worth. War. A. Feld.

## TO OWINERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel.
THE SIMPLE, COMPACT, STRONGAND
effective mauner in which it is spphed to any height of fall, (3 feet to 300 ,) and to any kiad of macbinery, will Save in Transportation. Material and Ifabor, from 25 to 50 per cent. of the entire cost of the

Structure to which it is applied, and propor-
tionally inerease its value.
For full information from the Inventor, apply at the
Miners' Foundry, trom 10 to 11 A. A., or address
J. M. BETH.

Miners' Foundry, San Francisco.
Ther Theel ia fully gearasterd. Jan19-tf

## Agency For Patents,

$T$ HE UNDERSIGNED having been long established in THE UNDERSGNED having been long established in arrangements for attending to the interests of inveutors
at the Pateut Offee in Washington, ofler their services for the securing of Caveats and Patents also, will at-
ten to the sales of Pateut Rights, and to all matters ten to the sales of Pated Rights, a
counected witl patented invertions. WETHERED \& TIFFANY, Charles R. BOND, (Iate City and County Aesessor.) REALESTATEAGENT, No. 410 Montgomery street, San Francisco. Real fitate purchased and sold, and loans NEGOTIATED.

SQUARZA'S.PUNCH. hone mantanctort. mhonsaie avd retail,
No. 44 Leidesdorfi st,0 near Sacramento Branch at 406 Montgomery street.
P. M. S. CO.

PACIF IC MAI STEAMSHP COMPANY'S road with the steamers of the Athantic and Yacific
Steamship Company at Aspiuwall. FOR PANAMA.
The following Stermships will be dispatched in the month of Fobruary, 1863.
Maxch Znd, - - - Steamer Golden Age.
March 11th, ......- Steamer Sonora.
Maxch 21st, - - - Steamer Congtitution.
Will leave Folsom Street Wharf, with Passengors and Treasure, for Panama

AT 9 O'ClOCK, A. M., PUNCTUALLY,
Aad connect, via Panama Railroad, at Aspiawall, with
tearnships for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.
jez Corner of Sacramonto and Loilesdorff sts.

## PEOPLE'S

Steamship Iuine! CONNEC'IING

## CALIFORNIA AND NEW YORK,

 via nicaragia.g50 Miles Shoitertinuany other Route:
The Fast and Favorite Double Engine Steamship,
MOSES TATIOR, HOWES

## Will bo dispatehce for

San Juan del Sur,
From Mission street Wharf,
Punctually at $90^{\circ}$ clock, $A$. M., on
WEDNESDAY, - - MARCH 11. 1863. Connecting at GREYTOWN will tho spledid ster niship LLLINOIS
Reduced rates of Passage nad quick trips are secured
The re oppening of the Nicaragua Route. aud safety, ;ivd every effort will be made to jusure the comfort of passengers
For further information apply to
320 No. 407 Wablingtun Street, opp. Post Offce.

DONAHUE'S

## Union Iron and Brass Foundry,

Corner or Friest axd Mhsyon Streats, San Francisco
The First Establighed in the state.
M ANUFACTURE STEARIENGINES, Quartz Stampers, Amalgamators, etc., ete., at redued prices. Have now the largest and best assortment of
Gear nad Machinery Patterns in the State, a list of which will be forwarded to snyone desiring it, free of
cost.
PETER DONABUE.

## Holiday Presents:

WATCHES
DIAMONDS,
JEWELRY AND SILVIER WARE

## AT

BRAVERITAN \& LEVY'S, 621 Wasnington Street,
We call tae attention of our friends and JEWELRY AND SILVER WARE,
Of the latest and Mifst Funhionable styiles, which wo
FRENCH CLOCKS,
PREOIOUSD STONES, Which we are selling, SET or UNSET, at the very
LOWIST PRICES. LOWEST PRTCES.

BRAVERMAN \& LRVY,
No. 621 Washinton $)^{+}$
Dec 29 1m
No. 621 Washington, ${ }^{+}$treet,
Facivg Maguire's Opera House

WHEELER'S
Amalgamating and Separating Pans,
It is acknowiedged by all who have exanined the prin. ciples and wituessed the operation of these Puns, that they are decidedly superior for trituraling and amalgar mating purposes to any other in use.
The most important pridciple counected with the ops-
ration of these Pans is the stparation of the triturnting ration of these ragns is the stparation of the triturating $^{2}$ process from thit of extracting the amalgam from the sand. The chiel' cause of loss of the precious metals ari-
ses from the passing off of the same in combination with ses srom the passing of of the same in combination with
the quictsilver, during the proces of trituration, and in cleuning up. By the iutroctuction of the Separating Pan to fllow the trituration this loss is elititely aynided. In working. These machines there is no tippreciable Joss of
quicksilyer, and beuce nune of the precious metals. quicksilver, and bence nune of the precious metals,
Whero these Pans lave been intronuced and oporated
by the side of others on sands from the same rat, the by the side of others on sands from the same rat, the Wheeler Paus havo uniformly gained a large percentage of metals over its comperitors, as well us a still large
** These Pans man be seen in daily operation, at tho Miner's Foundry, on First street in this city, where all interested are invited to call and examine for themselves
nol6-tf
ZENAS TVHEELER.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek, san feancisco.
Clear goln bearing sulphorets woriked at ieni process. Yield of Aluliburets firm 201,50 pier ceut highor than the BEST AMALGAMATION PROCLSS, Regr Apparatus for separating Sulphurets set up by ex-
perpenced hanals at a cost of $\$ 50$ to $\$ 100$, if desired by mill owners. No power nor clean water required for he purpose.

## JULIUS SILVERSMITH,

Commissioner for Nevada Territory ${ }_{3}$, office, in late state capitol,
Corner of Battery \& Washington streets.,
Room 23, up stairs.
$\mathbf{W}^{\text {E WOULD REAPECTMULY SOLICTT FROM THOSE }}$
 quiring the omial action of a Commiesinoer-such as
the drawing up of afiduvits, acknowledgments, the takthe drawing up of a atid
ing of testimony, etc.

LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET LRON
WORKS.
The only exclusively Boiler Making Establishment on the Pacilio Const Owned aud conducted by Practiral
Boiler Mnkers. All orders for New Work, the reparifug Builer Makers. All ordirs for New Work, the repairing
of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Marizet Streets.
Opposite Orieutal Hotel, San Frabcisco, Cal.
1.RWIS COFFEY

JAMES PHELAN,
(Late J. \& M. Pmerani,)
IMPORTER AND JOBBER,
Wines; Liquors, Etcis Etcis
Nos. 616 \& 618 Front street,
Between Yackson and Pacific Streets,
Established 1849 .
All Goods Guaranteed. Orders Solicited TERMS LIBERAL.

For Sale Cheap!
A HOREZONTAL STEAME ENGINE OF capable of driving a ten stamp nill, for sale at balf it original cost. Apply to

Federal Building, cor. Buttery and Wenshingtosh,

THEODOR KALLENBERG
Maker of Models
FOR INVENTORS.
MACHNES, MATHEMATICAL, Optical and Philosoph
ical Instruments. Scales, Weigbts, etc.; Siec
Stamps, ines nud lie Sink ing, Embossingstamps.
Reparing of Machinery promptly attended to.
No. 4 Sansome street, conner Maket, San Francesco.
 Wheel.
We have received, from the inventor the following description of this Wheel which we give, with the accompanying illustrations. In consequence of numerous letters of enqui. ry received by the inventor we are requested to state that this discription is presented in place of the circular, the publication of which will neccessa rily be delayed for a short time.

It has been the object of the inventor to produce a bractical water wheel, alapted to the peculiar neressities of the Pacific Joast-one that shall be imple, compact, durable nd effective-rendering he small streams, which umble down from the mountain ranges as available for waer power as the larger and more sluggish ones which flow harough the the valleys. Although the principle upon which ais wheel is based is in some respects what is usually termd "reaction," still its construction is such that the action f the water is direct, and it is exclusively a "pressure heel," the water having nowhere in its passage a higher elocity than three or four feet per second.
The above engraving is a representation of the wheel as is applied to high falls. The water is conveyed in sheet on pipes from the ditch or flume, admilted at the top of ecylindrical caseing enclosing the wheel aud discharged rough the draft pipe at the bottom. In Fig. 2, one half the casing is removed (the two halves are alike) showing e interior and also a view of the wheel, which consists of ree steel blades or buckets diverging gradually from the antral brass collar between which the inside contact flange the buckets are clamped and adjusted to give the requir1 openings between them.
The buckets revolve in the space between the annular own confining the water in its passage to the openings the ample space around the wheel allows the water to apoach it from all sides, with the full preasure due the fall; id the effective pressure upon the convex surface of the rckets in the direction of the arrow, is as their inclination which the openings between them is a measure. When e velocity of the wheel reaches 60 per cent. of the velocdue the fall, the tendency of the water toward the openg ceases, and it passes directly to the center of the wheel, ssing inward the depth of an opening, while the wheel is iveling the length of a bucket. A.s the water passes $\mathrm{th}_{\mathrm{e}}$

allowing the water ample room for its passage intu the draft pipe below.
The tendency of the water to go directly to tha center of the wheel, with a constant pressure due the fall, on the whole convex surface of the buckets, and in a slow smooth and even flow, is in accordance with both theory and practice, and requires no directing surfaces, guides, or shutes, to give it that direction. The practical working of the wheel shows that the result is secured by the curve of the buckets which is such as to give the water a uniform motion through the wheel (in whatever position they may be adjusted) and to their cutting edge and finished surface and to the rapidly changing position of the opening between them which does not allow time to overcome the inertia of the water or draw toward them.
The pressure of the water is equally destributed around the wheel. There is therefore no pressure on the bearings, nor is there any lateral pressure.
To secure the perfect running of the wheel between the annular crown, without leakage or friction, the bearings of the shaft are placed in hexagonal boxes lined with lignumiritæ, and adjusted by set screws, as is shown on the hubs on each side of the casings. In these bearings, in. the solid and unyielding cast iron casing, and with the wheel fuished in a lathe aud perfectly balanced, there is no vibration or trembling, when running at high velocities ; and the least possible amount of friction.
Provided elear water cannot be obtained for lubricating the bearings and sealing them to exclude the air from the draft below, oil may be used and hemp packing on the inside of the bearings.

J. II, BETH'S HYDRAULIC PRESSURE WHEEL.



Fig. 2.

Muddy water does not injure the buckets, as a small space is allowed between the edge of the buck ets and the crowns, without loss from leakage, it being counteracted by the centrifugal force imparted from the velocity of the wheel.

One of the most distinctive features of this wheel is the simplicity and economy with which it is applied to different kinds of machinery.
For Circular Saw Mills, it is so constructed as to give the required speed when placed on the saw
opening, it is divided by the central flanges and collars, one half passing off at each end thro, the crown; the whole inside being left open, arbour. A 16 -inch wheel put in operation last fall, near Aurora, N. T., drives a circular saw with power sufficient to cnt 1000 feet of boards per hour.
The wheel is placed on the saw arbour and 18 feet above the foot of a fall of 40 feet.
In building a mill of this description no sawed lumber is required before putting it in operation. A site being selected, not more than 27 feet above the level. of the back water, (the draft cannot well be made perfect beyond that point, and perhaps not even to it, at high altitudes, it being limited by the extent of the atmospheric pressure; as far as it goes, however, it is fully equivalent to the direct pressure ahove the wheel providing the draft pipe is air tight and terminates in the back water below,) sleepers are bedded into the ground upon which the carriage and wheel are placed. The water is conveyed to and from the wheel in a sheetriron pipe.

The durability and economy of this mill (its cost is less than half the usual amount, ) and the ease with which it is almostinstantly stopped and started and the speed controlled, are qualities which will be appreciated by those acquainted with the business. Small whoels may be applied with the same advantage to shingle saws, to small mills for grinding grain, and various other purprses. When the required motion is slow, as in quartz mills, the wheel has a great leverage, and the speed is reduced with light belts and pulleys, and with little wear and tear, compared with what would be required for raising speed from a lower velocity.
For flour mills the wheel may be (on falls of any considerable hight) placed on a level with the pulley on the spindle of the stone and the power transmitted by a single belt, while the position and speed of the wheel affords equal facilities for driving the other machinery of the mill.
The inventor of this wheel knowing that its success depeads entirely upon the proper application of the priacipl has each wheel constructed in accordance wih his own spe
cification of size, proportion and finish, to suit the hight of fall, quantity of water, at differ eut times and seasons of the year, and the purpose for which it is to be used; and as the wheel is complete and in runuing order on leaviag the shop its application is, easy and success certain in the hand of any mechanic of ordinary ability. When the wheel is applied to low falls the outer or cylindrical portion of casing is removed aud it is placed in the open floons, the size being made to suit the volume of water.

The speed of the wheel is exactly in proportion to the quantity of water passed through it therefore a self-acting gate which regulates the supply, regulates the speed accordingly. This has been found to work perfectly in practice.
The guarrantee upon which the wheel is furuished is that it shall equal in power the Overshot Wheel. No regulascale of prices can be given in consequence of the differ ent degrees of finish; proportions and applications required. It is however much less than that of the most perishable wooden structures of the kind.
Full information concerning the wheel may be obtained from the inventor perscnally, by applying at the Miners' Foundry, on First Street, Sun Francisco, or by addressing
J. M. BETH.

Mriners' Foundry. Sau Fruacisco.
[From mex Loxdoy "Mhitica and Subtinva Magazim."] THE MEXICAN METHOD OF AMALGAMATION.

BY JAMES NAPIER, JON., F. C. S.
Late Chemist and Assayer to the Guauaxuato Mint, Mexico. [conttyoem.]
In the introductory section I gave a brief sketch of the history of the Patio amalgamation process, and a few analyses showing the general composition of some of the silver ores in certain of the Mexican mining districts. In the present section I propose describing the methods employed for grinding the ores and separating the gold; it being undorstood that my deseription refers particularly to the district of Guanaxuato. As toe mode in which the sales of the ores are conducted is characteristic, I may be permitted to give a prefatory notice of it.

Some of the poorer mines of Guanaxuato are worked by what are called "Buscones" (searchers.) These are miners answering to the Cornish "tributers," who work without any definite pay, but receive half of the value of the produce they extract from the mine. At stated times a sale takes place at each concern, when these buscones arrange in separate lots whatever they may have extracted since the previous sale, in the court-yard of the mine: These lots of ore are cunningly laid out, so as to expose the richest portions to the view, some showing much taste in their arrangement; and each miner stands near his own lot and keeps it constantly sprinkled with water, which has the effect of making the mineral look darker and richer.

The various "Rescatadoras" (purshasers) take from each lot a small portion of ore, as average a sample as possible, which they have finely ground, and tried or assayed on the spot. This is done by placing about a handful of the ground ore in a "Jicara" or sinall round bowl, washing away the whole of the earthy particles, and judging from the metalic portion remaining of the richness of the ore. It is realy astonishing to marl how by this rude process those who constantly practise it are able to arrive at results so near the truth. However, many purclasers have assays now also made by fire for greater accuracy, and in this case the samples are obtained the day before the sale. These assays are either made by scorification, or by smeiting the mineral with red lead, crade carbonate of soda, a lit tle charcoal and salt, and cupelling the resulting button of lead.
At the regulated hour for the sale a bell strikes, as a sig. nal that it is about to commence. The person entrusted with the sale takes his place successively at the foot of each lot, and every buyer in tura whispers into his ear what he wishes to give for that parcel. When all have given in a price the lot is called over to the highest bidder, the rate of his bid being uamed; where two buyers bid the same amount,
the first hidder gets the preference. The person acting as the first hidder gets the preference. The person acting as
auctioneer and the rescatadores thus move from lot to lot till the whole of the ore in the yard has been disposed of. The weight of these lots of ore is not ascertained by weighing,
u thas to be judged of by the eye. This, like the trying of the ore, is accomplished by those who have had long practice with remarkable accuracy; and; on the whole, one of these sales is rather exciting. The moment a lot of ore is
called out to a buyes, the miner has nothing more to do with it; the purchaser having to remove it from the ore yard to his reduction works, or Haciendes. This is usually done packed in sacks on mules' backs; the ore, if in vers large lumps, as it often is, being previously brokeninto noderately sized pieces. Each sack holds about 175 Dbs ., and two of them are loaded on each mule..

## grinding the ores.

The first operation to which these ores are srbjected is a coarse stamping. "This process is carried out in what are termed "morteros" or "molinos," which are very similar to the stamps used at the Cornish tin mines. The extent of these morteros, or the number of heads, naturally depends on the extent of the "Hacienda," and they are worked by mule power, excepting in a few districts, where steam or water is employed. The ore, as it is fed to the stamps, is in pieces about the size of the fist; as it is stamped, it falls into a piece of strong hide, perforated with small holes, and fixed in an inclined position. What does not pass through the holes is again returned to the stamps, wbilst the finer portion, called "Granza," a very coarse sand, is conveyed to the "arrastres" or fine grinding mills. One stamping mill or battery, with ten stamp heads, worked by six mules which are changed every six hours, is capable of stamping from three o'clock in the morning till seven in the evening forty cargas of 350 ths. each.
[Here follows an illustrated descriptiou of the Mexican arrastre, with particular directions for constructiug the same. California miners are so well acquainted with the principles and working of this machine that there is no necessity for reproducing that portiondiaving reference to it , until we come to the concluding paragraph, which we subjoin.] As soon as the bottorn of an arrastre has been put in, new grinding stones are set to work to grind "Cabecilla"
(the residue remaining after washing a torta) mixed (the residue remaining after washing a torta) mixed with water. This ensures the whole of the interstices being filled up, and is continued for one day, when a second stone is attached. At the end of three days a third is added, when the grinding of poor ores may be gone on with, and after four or five days the fourth stone is added and the fine grinding gone on with.
fine grinding in arrastras and extracting of gold.
In districts such as Guanazuato, where the ores contain gold as well as silver, the former metal is generally in such small quantities that if extracted as an alloy with the whole bulk of the silver it would scarcely pay the cost of extraction, at least in Mexico, but by adopting the plan of leeping the arrastres charged with mercury'during the grinding, the gold is concentrated and made to yield very handsome profits. When this method of concentrating the gold was first used in Mexico we are not at present aware, but Humboldt states that he was informed it was in use in some districts in 1804, but that it was not employed in Guanaxuato, where he was, nor did he see it in operation.
The quantity of ore from the stamping mills charged to each arrastre at one time varies according to circumstances; however, in the best regulated works in Guanaxuato, where the grinding is without doubt carried to greater perfection than in any other district in the republic, an arrastre of the dimensions given above is charged with from six to seven hundred pounds. To this is added a barrel of water-about ten gallons-which is enough to bring the mass to the state of a thick cream. On the quantity of water added depends much the quality of the grinding which will result. Humboldt states that in no part of Europe had he ever seen such fine grinding as in the Great Haciendas de Plata of Guanaxuato. If the arrastre be a new one, or one from which the amalgam has just been removed, there is added from five to ten pounds of silver amalgam : that is, after the arrastre is well "ascentada," or in good working order. Some amalgamators prefer having this amalgaus very "dry," or containing but little free mercury; whilst others again perfer employing it with more mercury. However, it appears to be certain that the less mercury it contains the better, up to a certain poiat. The reason given for adding amalgam instead of mercury alone, is, that if mercury only were added
nould run-immediazely into the crevices of the bottom, spread by the action of the stones over the whole surface of the bottom. This I think is true ; but it is also evident, from experiment, that analgam will take up gold and silver much more readily than pure mercury, and that up to a celextent the freer the amalgam is from mercury the better will it take up the gold aud silver. Might not many of the gold amalgamating michines patented of late years in this country have succeeded much better hàd amáagaì̀ been added instead of so much pare mercury; I meak, amalgam from which only a small quantity of mercury would ooze when pressed between tive finger and thumb.
From time to time the 24 hours (the usual time required to grind the above weight of ore) water is added to the arrastre as follows:-The arrastres are charged about four o'clock every morning, when, as we have already stated, one barrel of water ( 10 gallons) is added; at nine o'clock another, and sometimes one and a half ; at eleven o'clock another barrel and a half; at twelve o'clock one barrel; at three $0^{\prime}$ 'clock, three barrels, and at five o'clock four barrels-in all welve barrels, or about 120 gallons of water. This quantity will vary somewhat with different classes of ores. The g rinding should be so perfect that no grittiness be felt between the fingers when the band is inserted into the mass. As the operation goes on, the amalgam gradually searcles into the crevices of the arrastre. Every second morning, a small portion, called a "Tentadura," or sample of the amalgam ("Pella") is taken from each arrastre, cleaned well with water, and its condition examined. From its "dryness" or "moistness," that is to say, from the greater or less quantity of mercury which can be expressed by pressing it with the thumb against the inside of the "jicara" containing it, is judged how much, or if any, fresh mercury will have to be added to the next grinding ; for the amalgam is notremoved but at the shortest every three months, unless the ores be unnsually rich in gold, when the arrastras are freed from amalgam. The usual amount of fresh mercury added each arrastre during grinding is about half a pound every second day. However, this will vary very much with the ores operated upon ; but as a rule the amalgam should not contain more than about 20 per cent. of gold and silver. At the end of 24 hours, when the grinding is concluded, the "lama" or slime is baled out with wooden bowls ("Bateas") about half a vara in diameter, into a barrel, in which it carried and poured into a place prepared for its reception. In some haciendas it is baled into a small wooden launder which leads to the receptacle ; and in other works each a rastre is furnished with a large plug near the bottom, which when opened, allows the thin slime to ran through conduct pipes to the receptacle. When the slime is moved by hand with a bowl, there is laid on the bottom of the arrastre' $\varepsilon$ small plate of lead or rron, so as to prevent the bottom from being scraped and any of the rich amalgam being removec by the bowl. This operation lasts but a very short time about half an hour, and when concluded a fresh charge graza from the stamps is added, and the grinding arain gon on with as we have described. Two mules, which are chang ed every six hours, are attached to each arrastre. In thit operation there is generally an augmentation of weight the extent of about 8 or 10 per cent. from the wearing aw of the grinding-stones. In most cases the arrastres a arranged in a double row in a house called a "Galera" (ga lery.) The bottom of an arrastre will last ahont twelve month but the "Voladoras" or grinding stones do not not last mon than a month, and in many instances not even so long.

There appears to be an alloy of gold and silver whic will not combine with mercary. My friend, the late M Henry Mackintosh, who had long experionce in these mas ters, stated to me that on two occasions he had found a alloy of gold and silver which he could not get to amalg mate after continued grinding with mercury for six month Mr. Mackintosh could not remember the composition of it alloy, but he thought it contained about 50 per cent. of . 6 ver and 50 per cent. of gold. Sonneschmidt, in speaking the action of mercury on gold states-"On various occasio I have seen native gold finely divided that would not 001 bine with mercury, which I thought was owing to the surfa. being covered with some foreign matter; at the same tir [continvsd on bth Pace.]

## MINING AND SCIENTIFIC PRESS.

SAN FRANCISCO MINING NOTICES. ${ }^{\prime}$
ASSESSNBNTS LEMED.
Asses3ments upou Miniug Stock s have been levied as follows :-

Garabaldi.-Assessment of $\$ 1$ per share, levied March 2nd.

Sutro.-Assessment of $\$ 1$ per share, levied Feb. 23, payable March 23.

Silver Quartz Mill Co.-Assessment of 5 per cent. levied Feb. 23, payable Murch 28.

Helvetia.-Assessment of 25 cts. per share, levied Feb. 17, payable March 10.

Zouave.-Assessment of $\$ 1$ levied Feb. 22, payable Mar. 20.

Rogers.-Assessment of $\$ 5$ per share levied Feb. 4, pay able Mar. 15 .

Sam Wright.-Assesment of 50 cts . per share levied Mar2, payable immediatelg, delinquen's to be sold Apr. 2.

Nupoleon (copper.)-Assessments of $\$ 3$ per share levied Mar. 3, payable in 30 days.
(ioldan Age.-Assessment of one dollar per share levied Fob. 24, payable March 26 .

Washoc Gold \& Silver.-An assessment of 2 per cent. on capital stock was levied Feb. 16, payable Apr. 1.

Rhudes' Diggngs.-Assessment of 25 cts . per share leved Fel. 26, payable Mar. 5.
Texas Co., at a Meeting held Feb. 14, levied an assessment of one dollar per slare, payable to the Secretary in Virginia City.
Santa Rosa Co.-February assessment of 20 cents per share now due aud payable.
Madison Co.-An asses:ment, two dollars per share, was levied Feb. 17, payable immediately, at Ollice, 600 Mer chant St.

Union Co.-An assessment of one dollar per share was levied February 16, payable on or before March $2 \overline{5}$.

Pena Co.-An assessment of $\$ 3$ per share was levied Feb. 5 , one half payable March 1, balance April 15.

Kossuth Co., Devil's Gate District.-An assessment of 10 ets. per share was levied Feb. 7.
Constitution Company levied an assessment of 25 cts. per Feb. 11, pagable immediately.

La Plała Oro Co. levied an assessment of five dollars per share, Feb. 9, payable at Office of the Secretary in Virginia City.
La Plata Co. levied an assesment of 50 cts. per share Feb. 2nd, payable at Ofice of the President.

Alamo Co. levied an assessment of 50 cts. per share, Feb. 11, payable on or before March 20, at 115 Cal. Street San Erancisco, or at office in Carson City.
Tucker Co. levied an assessment of 25 cts. per share, Feb. 11, payable immediately at 608 Merchant St.

Hawley Co. levied an assessment of one dollar per share, ou Feb. 9, payable on or before March 12, to Superintendent at the mine, or Secretary at Olfice.
Slate Range Co. levied an assessment of 50 cts. per share, Feb. 4, payable, March 15.
Moss G. \& S. M. Co.-An assessment of 50 cents per share was levied Jan. 27, payable at 428, Montgomery St., or to the Superintendent at the mine.

White Cloud G. \& S. M. Co. levied an assessment of 75 cents per share, Jan. 27, payable to the Secretary, at 428, Montgomery śt.

El Dorado G. \& S. M. Co.-An assessment of One Dollar per share was levied Jan. 23, payable to the sec. or to the Supt.

Gaudaloupe S. M. Co.-An assessment of $\$ 30$ per share was levied, payablo on or before March 1st.

El Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levied Jan. 27, payable at office on or before Feb. 27.

Polar Star ( . \& S. M. Co. Ievied an assessment of 50 cents per share, February 4th, payable on or before the 4 th of March, at the Uffice in this city or to the Superinteudent at the mine in Aurora, (Esmeralda.)

Dios Padre G. \& S. M. Co. levied an assessment of 3 dollars per share, Jan. 31, payable in 30 days, alsu an assessment of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.

Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.
Sonora Mining Co.-An assessment of 25 cents per share was levied,Jan 23, payable imnediately.
Overman Mining Co. -25 eents per foot, Jan. 29, payable within ten days.
Ohs. Caney Mining Oo.- 50 cents per share, Jan. 21, payable on or before Feb. 20th.

Sierra S. M. Oo. An Assessment of 82 was levied Jun. 22 -payable immediately, at Office 575 3ission St.
Mount Ilavid:on Co.-An Assessment of 50 cents per Share was levied. Jan. 23, mayable on or before March 1st, at Ufice ti Montgomery lBlock.
Auriatic.-Fifty cents per share, payable at No. 4 Armory Hall, San Francisco, or to the Superinteadent at the Mine
Hattie G. \& S. M. Co.-Thirty cents per share, levied Jan. 31, payable at Office in San Francisco, or at the Mine.
Hale \& Norcsoss-Assessment of T'en Dollars per Share, levied Jan. 31 - payable at the Office in this city, or to John Skae, at the Mine, on or before Feb. 25.
Mina Prieta S. M. Co.-An Assessment of Five Dollars per Share was levied, Jan. 31, payable on or before March 5th-at Office, eor. Montgomery \& Jackson Sts.
Recorder Mining Co.-An Aasessment of One Dollar per foot was levied Jan. 19, payable half on or before Feb. 18, and balance on or before March 20.
Fible \& Norcross S. M. Co. have leviod an assessment $\$ 5$ per share payable on or before Jan. 26th.
Martin White. $-\Delta \mathrm{n}$ assesement of 20 cts. a share was evied, Jan. 2.
Oriental G. \& S. M. Oo.-An assessment of 50 cts per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue and C St., Virginiu City.
Baltimore America Consolidated,-Anassessment of 50 ents per share was levied, Jan. 5.
Savage,-An assessment of $\$ 35$ cents per share was levied, Jan. 7.
Hawley.-An assessment of $\$ 1,00$ per share was levied Feb. 9, payable March 12.
Cole S. M. Co,-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms 7 and 8, Government House, San Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ pe share, Jan. 15-payable Feb. 18.
Lady Bryan.-An assessment of 70 cts. w̧as levied, Jan 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.

## company meetings.

Chs. Caney Oo.-Special meeting of stockholders will be held on Wednesday, March 18, to consiaer the propriety of an increase of capital stock.
South Utah Co. will hold its annual meeting for election of 'Trustees, etc., at No. 608 Merchant St., March 20.
Nevada Co. will hold its annual meeting for electing l'rustees, etc., at 608 Merchant St., March 20.
Annie Laurie Co. will hold its annual meeting for election of 'Trustees, etc., March 19.

## ASSESSMENT SALES.

Sales of Stock for non-payment of assessments are advertised to bo sold as follows:-
Oriental Tunnel Co. will sell, on Saturday, Mar. 28.
Mars will institute proceedings against delinquents, Mar 6th.
Planet will institute proceedings against delinquents Mar. 16 th.
Meredith.-Annual meeting of stockholders will be held Monday, Mar. 16, at 2 P. M., at 712 Montgomery St.
Texas Co. will sell delinquent shares, on the 14 of March.
Meredith Co. will sell delinquent stock, March 2n.
Coso Co. will sell delinquent stock, March 18.
Moray Co. (Y. City.--Suits for delinquent assessments will be commenced, March 14.
Michigan Co. (Gold Hill) will commence suits for delinuent assessmenis, March 16.
North Potosi Mining Co.-Sales deliquent stock will made March 17.
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be made March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Co. 327, Montgomery Sti, San Francisco, on the 25th of February.
Combination G. \& S. Mining Co.-Sale by E. S. Spear \& Co., at 433 California St., on the 10th day of March next.
Lady Bryan G. \& S. M. Oo.- Shares of delinquent stockholders will be sold at auction for assessments, at No. 400 , Montgomery steet, on Jan. 27.

Desert Mining Co.-Shares of delinquent stockholders will be sold at auction, for assessments, at No. 400, Montgomery street, Jan. 27.

## general notices.

Yellow Jacket.-Corporate Deed now ready for signature at uffice of H. G. Muynard, Golu IIill, N. T.
Jenny Lind (Esmeralda.)-Owners of ground in this Cot are requestes to call and sign deed of trust ut 608 Mercs an St.

Mount Hope Co.-Persons claiming stock are reqrested to present title papers for examination till March 16.
U. S. Mining Co.-All persons claiming stock are requested to present title papers for examination at Nos. 7 \& 8 Government House.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See Territorial Enterprise.)

Ashland Co.-L. A. Gould, in the name of the Moss Co. notifies the Asbland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ashlad Co. is forbidden to extract any valuable metals.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Heary Martin G. \& S. M. Co.-"Thomas Wallace, Trustee." gives notice that whereas certain parties illegally claiming to be Trustees of this Conipany, have changed the name of the Corporation to the North Star G. \& S. M. Co., and illegally elected officers for the same, the public are cautioned against such acts, etc.
Tee Sweezy Co., Gold Hill, give notice that Baltic Company have wrougfuly claimed and worked their ground since July, 1860.
The Unmex Roms Co., lying next west of the Virgivia Co. claims have notified the Hazel Green, Tingley and Beach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.

## MINING AND SCIENTIFIC PRESS.

THE ONLY MYNING, MECHANYCL AND SCIENTIFYC PAPER ON THIS CONTINENR.

## THIRD YEAR: VOLUME VI-NEW SERIES!

A new volume of this extensively circulated paper commonced Sept. 11, 1802. It is intended that every numbor shall be replete with infurmation concerung Mining, Scientifc, Mechanical and Industrial pursuits, together
with suveral originat engraviugs, of now. iuvontions, etc., propured expressly with several originat engraviugs, of now. invontions, etc., propured expressly for its columus
of Scieuper is devoted to the above purposes, together with the interests that may be of interest to the reader' ; and it is the autention of the proprie tor to spare no pains or explense in making it equal in interest and valuable information to any paper yet published.

## The Mining Interest !

Will Gnd it of great ralue, as it will contain all the news appertaining to Dining, the prices and sales of Mining Stocks, new inventions of Machlnery
adapted to that purpose, and of every thing generally that may be of service adap ed to ther.
to the

## The Inventor !

Will find it an excellent medum for the purpose of bringing bis invention into notice, of ascertaining the progress of invention in this ind other
countrics. and also of recciving any juformation that may be becessary countrics, and also of recciving any information that may be mecessary
in obtaining his patent, the prompiotor havior bad great experience as os in obtaining his patent, the pronnictor haviog bad great experience as a
Patent Agent, together with facilities at Washington that enable him to ob Patent Agent, together with fa
ain Patunts will displatch.

## The Mechanic and Manufacturer !

Will be greatly beneftted by its perusal, as each number will contayn several oristinal ungravings of new machines and inventions, togethor with a large amount of reading matter apjertaining thereto. Wo are constantly
receiving the best scientific jourmals from all quarters, from which we shall continue to extract whatever may be of beneft or interest to our readers.

To Chemists, Architects, Millurights and Farmers !
This journal will bo invaluable. All now discoveries in Chemistry will be given, and a largo amount of information of great service to Architects and
fill wrights will be found in our columus. The Farmers and llanters will Millwrights will be found in our columus. The Farmers and llanters will not be ueglectent, engravings will be given of agricultu
the farming interest generally will beamply discussed.

## Terms.

To mall subscribers:-Four Dollars per annum,
Club Rates.
Five Copies for Six Months $\$ 8$.
Teu Copies for Six Montha, $\$ 16$.
Ten Copies for Twolve Months, $\$ 30$.
Twenty Copies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yeariy subscrintion is only 9280 Names can be sent in at different times and from different Post-ofices Specimen copies will be sent gratis to any part of the country.

## EWER \& SMLMH, Pablishers,

Room 27, (formerly) U. S Court Bullding, Corner of Washingtcn and Ba

## THE HUMBOLDT MINES.

Mr. James B. Glasgow called at this office a few days since and exhibited aome fine specimens of silver bearing rock from the Sheba and Ben Franklin veins, in Star district, Humboldt Co. 'The rock is evidently very rich. Accompanying the specimens were several buttons of silver, one of which weighed over one ounce, taken from a small piece of rock from one of the samples shown. Mr. G. informs us that active operations are in progress toward opening the Sheba and Ben Franklin ledges, at different points alung their line of direction. Not less than eleven tunnels are now in progress, upon and approaching these two leads, which run parallel with each other, and less than 1000 feet apart-the Sheba being the uppermost one or the one highest up the bill.

The Ben Franklin lead was first opened directly upon the out-crop, by the Whitmore company, of which, our informant is a member. The rock before us was taken from a tunnel about 30 feet in length, which cuts the vein about 20 feet from the surface. The Union Band company is running a tunnel to strike both leads, and are now 200 feet into the hill.

The Sheba company are still at work upon their ground as described in a recent issue of this paper.

A large portion of the stock of this company is held in this city and the company has; within a few days, beea placed upon a thorough working foo:ing, under the superintendence of Mr. Richard Powning, an expetienced miner. Mr. Glasgow assures us that we were correct in contradicting the rumor started sometime since, to the effect that, a considerable quantity of the Sheba rock had been crushed in Falls mill, near by the vein, with no other result than a generous yield of lead and antimony. No rock from that lead has yet been crushed or amalgamated except by hand process, and the the assays thus made have resulted to the most unequivocal satisfaction of all parties concerned. Arrangements will soon be made for reducing and amalgamating on an extensive scale. The American Basin company has struck the Sheba ledge, in their tunnel and found it very rich. This ledge is about 15 feet thick, instead of less than 15 inches, as stated in a morning contemporary, a few days since. All the ledges in this vicinity are very heary-the Ben Franklin is about 11 feet thick, the San Bernardino 15, and the Mammoth about one hundsed feet thick. The Ben Franklin shows native silver in thin sheets, like strips of tin foil. There are numerous other leads in this, the Star Distnct, which are known to be rich in silver; among which we may mention the Yankee, the Mammoth, the Alamo, Yellow Jacket, J. W. Davis, etc., all of which are in progress of development by tunnels and shafts. Santa Clara joins this district on the North and has many rich leads, upon which much work has been done, by tunnels and shafts, some of the former raving been driven from two hundred to two hundred and fifty feet.
pRINCE ROXAL AND HUNBOLDT DISTRICTS
are also undoubtedly rich in mineral, although not so much developed as those previously named.

> Unionville,
in Buena Vista district is the county seat. More attention has been devoted to the improvement of town property in this than any other portion of the county. It is thought by some not to be so hich in mineral as other portions of the county, but this is probably owing to the fact of its not being so well developed, attention, as already intimated, having been more particularly directed to another chanoel. Another year will probably place it on very nearly, or quite equal footing, in mineral value, with any other district in the county.

## ST. MARTS,

a small district lying between Buenna Fista and Star Districts possesses more topographical advantages fur mining operations than any other in the country, and the best water power in that portion of the country. The same series of leads which enrich Star district, pass through this also, and
probably continue on to Buena Vista. probably continue on to Buena Tista.

There are four mills in the county about ready for opera-tion-three of which, viz.: Dodge \& Co., and Richard Homfray, at Star Clity, and W. C. Fall at Unionville, have already had their machinery in operation, but have not yet
done any regular work. Fall, we understand, has crushed
several tons of Fock from the National lead, but we have heard of no returns.

Judge Watson is now putting up a mill at Star City, near Homfray. Other parties we believe are about locating sites fur mills or have already done so. These mills with the exception of Homfray"s are all to be driven by water, of which there is an abundance the year round. Mr. H. has put up a steam engine, for present use, but will erect a water wheel during the coming summer.

## heaty investments.

Col. O'Connor, of this city, agent for English Capitalists has recently invested some $\$ 30,000$ in extensions of the Sheba and Ben Frauklin leads. Other parties-capitalists -have also invested not less than $\$ 15,000$ in the same locality within a tew weeks past. The above facts show most conclusively, that Humboldt is far from being a "failure," as has been asserted in some quarters. The coming season will doubtleas reveal some most astovishing developments in the distant Humboldt and Reese River regions Weare collecting fac's for a full and elaborate description of the Humboldt region which we hope soon to lay before our readers.

## gold in hembordt.

Gold bearing quartz has recently been discovered about 15 miles Last of Star City. The ledges are apparently very rich and carry coarse gold. A gentleman recently from Humboldt informs the Territorial Enterprise with regard to this discovery, that quite a rush has been going on to the new "Sierra District," in the range of mountains some fif teen or twenty miles East of Unionville, and that locality now boasts a population of nearly two hundred souls. The principal ledges in it are the Crocsus, a marvellously rich gold ledge; the Badger and tho Aunie, silver ledges, and the Great Eastern series of six ledges-also silver. The Great Eastern is forty feet wide, and the Annie and Badger, contain but little base metal, and assay $\$ 9,000$ to the ton Placer diggings have been discovered in the ricinity of the Croesus which yield from $\$ 15$ to $\$ 20$ a day to the hand.

## agricultural derthopments.

Recent explorations are developing the existence of much valuable agricultural land in the region of the Humboldt mines. A beautilul valley, of quite large extent, undoubtedly capable of high cultivation, has quite recently been discovered some 30 miles north-east of Star City. Up to Feb. 21st no snow had fallen, to lay any considerable length of time, in Unionville, and but a few inches in Star City. In the valleys below, the ground had not even been whitened by the wintry mantle, and the cattle there were enjoying themselves hugely, in their inmunity from winter blasts and in the abundance of green herbage.
This region, as soon as spring opens, will afford an abundance of emplosment for laborers, who will be needed to open and develop the mines already discovered. Uniorville, Siar District, contains an abundauce of water power for milling purposes. There is also a plenty of wood for fuel and mining timber. Wood is now selling at $\$ 8$ and $\$ 10$ per cord.
The Reese River excitement still continues with unabating zeal. The town, Clifton, as it is called, recently laid out there, is progressing finely. Thirty or forty new comers recently jumped a large number of lots previously located, but subsequently gave them up to the original owners. The mineral developments are progressing finely. One liundred feet of the Comet ground recently changed hands at $\$ 40$ per foot. Wells, Fargo \& Co. have already established an direct communication with 'the rest of mankind." The ar rival of a "Lady" is duly chronicled. She is to take charge of an hotel iv the new city, which already boasts of its "Occidental." and "Lander Honse." The inhabitants are looking anxiously for the return of Dr. Veatch, who proposes to open an Assay office there, by which the miners of that re gion may be enabled to ascertain the value of their "feet" and "indications," without the tedious delays of formarding their sample specimens to Virginia City. The Dr. is one of the most reliable Assayers and Mineralogists we have among us, and appears to be held in high esteem by the pioneers of that distant milirg autpost, with the development of which he is most intimately connected. We have the promise of an article now and then from his per, for which the Dr. will

A Mining Transafton.-A miner from the mountaing stepped jnto the salesroom of one of our most wealthy merchants, about four weeks since, stated that he was "flat broke," and asked for $\$ 150$, offering to make over to the aforesaid merchant, a mining claim for the money. The merchant knew nothing of the man or his claim, but gave h:m the money and took his bill of sale. He thought no more of the transaction until a few days since, when a stranger called at his place of business and asked him if he was the owner of such a claim. Receiving an affirmative answer, the stranger offered him $\$ 4.000$ for the same. The merchant hesitated a moment when the stranger added another thousand to his offer. The merchant immedtately closed with his visitor and pocketed the cash without any forther remarks. The mer-
chant is still ignorant as to whether he sold a folly or a fortune.
The above paragraph, which we started a few weeks since, has gione the rounds of the press, sometimes credited,sometimes not. One of our mountain contemporaries, the $M \in s$ senger, at La Porte, intimates that we have drawn upon our imagination for the story. Not at all, friend Dewer. The only mistake we made was in naming the sum paid by the merchant-which should have read $\$ 500$ instead of $\$ 150$. We have now however, to add a little to the original story, to the effect that another offer of $\$ 8,000$ has been maide for the same ground. On further enquiry we are enabled to state that the "Merehant" can be seen every day in the weok (Sundays excepted) at No. 421 Clay St. The mining stock in question was 20 feet in the Antelope, at Eismeralda, which was quoted at the Stock Board in this city on the 6th of January last at $\$ 95$ per foot, and on the 2nd of March, at $\$ 400$. A little cyphering will satisfy any one that such a transaction as noticed above, might have been made, as indeed it really was.

A New Board of Brokers.-An association of brokers has lately been formed in this city, under the designation of The Stock Exchange, and they hold their first meeting today, for the transaction of business. The time of meeting is from $11 / 2$ to $21 / 2$ o'clock, p. M. Samuel Purdy is President; $^{\prime}$. Isaac Bluxome, Jr,, Vice-President ; M. G. Elmore, Secretary, and J. H. Bullard, 'Treasurer. There are now 30 members, and a number of applications have been made by others who propose to join them.
The orign of the Board, as we are informed, was in consequence of raising the price of membership admission in the Stock and Exchange Bpard. Their first entry-dues amounted to $\$ 100$, whicb were raised to $\$ 250$, and are now fixed at $\$ 500$. The entry-dues of membership to the new Board will be $\$ 100$.

Beneft Conoerv.-We notice, by posters, that Rising Sun Division, No. 1, S. of T. of this city, are to give a Benefit Concert, oit Dashaway Hall, Post St. on the 12th inst., the proceeds of which are to be appropriated to furnishing their Hall, corner of Clementina and First Sts. This is one of the most useful and energetic organizations of this description in the State. It is known, par exce!lence, as the "Literary Division." In addition to the usual exercises of such bodies, on alternate evenings of their weekly meetings the members engage in debates, and furnish written essays and compositions, which are embodied into what is called a "Paper." Some of these compositions we have seen, and can fully testify to their excellence. They may rank with first class magazine literature. These exercises are most beneficial, not only upnn the members themselves, but upon the entire community in which they move. Such an institution, made up almost exclusively of young men, and ladies, is eminently worthy of support and encouragement, and we trust their Benefit on Thursday Evening next, will be a Benefit indeed.

Weat next ?-A mine of Epsom Salts has been discovered somewhere on this Coast, but where we are unable to learn. The discoverer, however, is willing to incorporate for a reasonable consideration.

## OBITIUARY.

We regret to announce the death of James P. Cbenser, sod of Ricaard Chezart EsQ. of this city, who died, on Thursday last, at the residence of his Grandfather, Dr. Peck, at Northampton, Mass. aged 19., of a fever conracted in the Chickhominy swrmps.
We knew him well. He was always genorous, brave and kiod. A great favorite among his fellows, no party or game of ball was complete with-

## MINING AND SCIENTIFIC PRESS

GENERAL MINING STOCI REPORT．

REPORT UF SALES
At the San Franctico Mining stock Board， For tho weuk todtag March 7， 1863


## STOCK REMARES．

## San Francigeo，March 9th 1803.

A large amount of business bas been dono in mining stocks the part reek，confiued mostly to middlo class shares．Fluctuations and fancy ave catered largely into operations，and excitement has run higher than $t$ noy previons pariod since the bulls and bears arst mado their appear anco upon the sfontgomery pave．
The leadiug excitument of the week bas boen the Burning Moscow，anc srew out of telugraph reports of an excsedingly rich＂strike＂in the lead wbich 2400 eluares have changed hands at prices varying frum $\$ 6 \%$ \＄$\$ \% / 4$ There need be entertained but little doubt of an ultimate and early ad vance in this slock
The Ophir bas declared another 48－dollar dividend，with the confldent expectations of coming up to the old figure of $\$ 72$ at next diuidend day． Whe Wile West was the subject of considerable excitement on Monday The stock suddenly roso to $\$ 500$ ，but soon dropped to $\$ 305$ ，and finails closed at $\$ 400$ ，at whick it may now be quoted．
Mount Davidsou still has an upwrrd feudency
Chollar has been largely dealt in at considerabio advance．Potosi has also urther advraced．
Sierra Nevada rematns af about，last quotations，notwithstavding its tri－
amph over the La Crosae

## TRANSACTIONS IN SHARES，FOR THE WEEK．

## NEVADA TERRITORY．

Ophir－12 at $\$ 3000,20$ days．
Gould \＆Curry－4 at $\$ 3,240$ ．
Chollar 40 at $600,1 / 2$ cash， $1 / 290$ ds．； 40 at 650 ， $1 / 2$ cash， ／2 90 days； 20 at 665 in 30 days．
Sierra Nevada－10 at 75 ； 10 at $921 / 2,5$ at 90.
Burning Moscow－62 at 220； 40 at 200 ； 10 at 190； 20 $160 ; 50$ at 10010 at 110, b． 30 bs．； 10 at $110 ; 10$ at 120 ； at $125 ; 20$ at $110 ; 100$ at $195 ; 10$ at 200.
Potosi－16 at 1721／2．
North Potosi－ 30 at $45 ; 10$ at $44 ; 23$ at $40 ; 10$ at $42 \frac{1}{2}$ ； 35 at 40 ． 70 at 65.
Chas．Caney－4 at $60 ; 5$ at $65 ; 20$ at $671 / 2 ; 5$ at $621 / 2$ at $60 ; 20$ at $62 ; 20$ at 60.
Rogers F．D．
Rogers F．D．）－ 26 at 13.
Norton 5 at $22 ; 10$ at $25 ; 10$ at $30 ; 50$ at 31.
Cedar Hill Tun．－ 30 at $43 / 4 ; 78$ at $5 ; 20$ at $5 ; 70$ at 31 at $6 \frac{1}{2}$ ．
Mount Davidson 60 at $8 ; 26$ at $8 ; 25$ at $71 / 2 ; 25$ at 8 ．
Buraside－ 15 at $35 ; 71 /$ at $38 ; 25$ at $40 ; 30$ at
Burnside－15 at $35 ; 71 / 2$ at $38 ; 25$ at $40 ; 30$ at 41 ； $21 / 2$ at $401 / 2 ; 5$ at $45 ; 5$ at $46 ; 10$ at $471 / 2$.
Madison－ 10 at $81 / 2 ; 10$ at $81 / 4 ; 22$ at 8 ；
Madison－10 at $81 / 2 ; 10$ at $81 / 4 ; 22$ at $8 ; 8$ at $15 ; 5$ at ； 10 at 15.
Zouave 20 at 16.

Hazel Green－70 at 41 $; 40$ at $5 ; 10$ at $516 ; 40$ at 6 ． Adriatic 50 at $6 ; 20$ at $9 ; 85$ at 15 次；75 at $17 ; 175$ a 19；75 at 18.
Cole－10 at 20；26 at $17 \%$ ．
Bullion（Van IIorn I）ist．） 400 at $1 ; 25$ at $11 / 4$ ．
Union（Russ 1）ist．）－ 25 at 2 ； 25 at 2 夋
Lucerne－100at $6 \frac{1}{2} ; 45$ at 8.
Oriental－10 at 10
Lady Bryan－ 25 at 6 ．
Comet（：impson＇s Park）－ 15 at $55 ; 10$ at 60 ．
Reese River 50 at $83 / 4 ; 507 ; 100$ at $7 ; 150$ at 7； 50 at $6 \frac{1}{2}: 50$ at $63 / 4 ; 300$ at $7 ; 100$ at $61 / 2 ; 150$ at $6 \frac{3}{4} ; 25$ at 7 100 at $7 ; 20$ at $7 \frac{1}{6} ; 100$ at 736 ； 80 at 7 ．

## esmeralda mistrict．

Wice West－5 at $400 ; 32$ at $480 ; 10$ at $475 ; 2$ at 460 ；
10 at $450 ; 2$ at $445 ; 10$ at 42010 at $410 ; 7$ at $400 ; 7$ at 405 Antelupe 10 at $410 ; 10$ at $320 ; 10$ at $385 ; 8$ at 405 ； 5 at 400.
Esmeralda 40 at 57 ； 8 at 60.
Real del Monte 10 at 95 ； 10 at $87 \frac{1}{2}$ ； 20 at 85 ； 37 at $771 / 2$ ： 37 at $75 ; 10$ at 75.
Utah－5 at $100 ; 5$ at $105 ; 18$ at $100 ; 35$ at $100 ; 14$ at $102 \%$ ．

Silver Hill－54 at $48 ; 20$ at $47 ; 20$ at $48 ; 10$ at $50 ; 44$ at $49 ; 10$ at 481,15 at $50 ; 14$ at $51 ; 5$ at $54 ; 10$ at 54 10 at $53 ; 10$ at $51 ; 5$ at $52 ; 10$ at $50 ; 5$ at 49 ． 271 ； 15 at 29 ； 177 at 30 ； 150 at 31 ； 50 at 33 ．
Bamboo－5 at 70； 20 at $40 ; 10$ at 40
Gov．Nye－ 20 at $101 / 2 ; 10$ at $10 ; 55$ at $101 / 2 ; 25$ at 11 25 at $113 / 4,25$ at $111 / 2 ; 70$ at $10 ; 30$ at $12 ; 25$ at $121 / 2$ 100 at $12 \frac{1}{2} ; 15$ at $12 ; 10$ at $121 / 2 ; 90$ at $121 / 2$
Coso－ 30 at 24.
Bodie，No．2．－15 at $6 ; 15$ at $23 / 4$ ．
COPPER STOCES．
Napoleon－10 at $25 ; 10$ at $21 ; 10$ at 22.

## VIRGINYA CITY STOCE LIST．

［Corrected Weekiy for the Miniog and Scientific Preas．］

| Bid． | A8k＇d |  |  |
| :---: | :---: | :---: | :---: |
|  |  | Irving |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Amori |  |  |  |
| BE |  | 边 |  |
| Baid |  | Nary Aua，．．．．．．．．．．．．．i．${ }^{25}$ |  |
| Birdsall ．．．．．．．．．．．．．．．．．${ }^{20}$ |  | Monterey |  |
| Bullion（c） | 50 | shodarcl |  |
|  | 60 | Madison |  |
| Burniug 3 |  | Molvegan |  |
| di \＆Paxtov．．．．．．．．．． 06 | 70 | North Amer |  |
| Balt imore Amerlcan．．．．．． 25 |  | Nerada．． |  |
| Buld Eingle． |  | Orimulal． |  |
| Bloumiugda |  | Usceola． |  |
| Cedar Eill |  | Pride of |  |
| Caledoula |  | Peytoaa． |  |
| Comet（Simpson |  | Philad |  |
|  |  | Recur |  |
| Connmercial ．．．．．．．．． |  | Santa Rit |  |
| Consulidated Cedar |  | Santa Fe．．．．．．．．．．．．．．． $12 \frac{18}{5 / 2}$ |  |
| Dayton Company ．．．．．．．．．． 10 |  | Swpezy |  |
| Decatur |  | St．Georg |  |
| Dur | 12 | Sinaloa． |  |
|  | 5 | Sierra | 95 |
| Empire．．．．．．．．．．．．．．．．${ }^{5}$ |  | Sierra．． |  |
| EiDoradh．．．．．．．．．．．．．．．．．．．．${ }^{50}$ | 55 |  | 1 |
|  |  | ${ }_{\text {Texas }}$ |  |
| Empire Co．（sinring Vul．）．． 25 |  | J．s．Miu |  |
| Fairvie |  | Union，Gold Hill ．．．．．．．．． $321 / 2$ |  |
| Governor | 8 | U．S．Tun |  |
| Gr |  |  |  |
| Grass Valley．．．．．．．．．．．． 11 |  |  |  |
| Golden Eira，．．．．．．．．．．．．． 10 |  |  |  |
| Hazel Green．．．．．．．．．．．．．．．${ }_{\text {a }}$ |  |  |  |
| Harrivon Co．，Geller Ledge |  | Yellow Jac |  |
| awh |  |  |  |

## Review of the week ending february $28,1863$.

The preparations neccessarily consequent upon the municipal election
ichl took place in Virginia City an Monday last，exerted a somewhat de－ pressing infuence on stock operations in that market during the weels pre－ Fious．Although the amount of busiuess done was lgat，the rates，as a gen－ oral thing，were materially improved．We note adrauces as follows：
Union，Gold Fill district，advanced from $\$ 15$ on Tuesday，to $\$ 25$ on Thurs－ day，but declined again on Batarday to $\$ 22 \%$ ．This advance is attributable to hopes of success in the suit with the Yellow Jackot．Madison，wheh had remaind quiet for several weeks，fonnd sale on Wednesday at $\$ 18$ ；on
Thursday it advanced to $\$ 37 / 2 /$ where it appoars to reat quietly - holders firm．The advance in this stock is attributable to the fallure of the jury to agree in its suit with the Moseow．Beach \＆Paston has advancod from $\$ 50$ to $\$ 80$ ，with but little stock offering－holders lookjing for atill higher tig－ ures．Gov．Nye is also jn considerabie demand，and has advanced from $\$ 5$ to $\$ 6$ ，per foot，at which luttor．Agure it remains firm．Oriental has advanc
ed a dollar on a ahare，and is now quoted frm at $\$ 8$ ．Sacramento has mate－ rially improved and may be quoted at $\$ 70$ ，with but ittle in the market． This stuek is chiefy held in this city．Hawley，in Spring Yalley，which has been very quiet of late，is now agriu enquired for and quoted at from $\$ 15$
$@ \$ 20$ ．There has been considerable excitement turing the week in refor－ ence to the Bullion，growiug out of its suit with the Yollow Jacket．Quite a number of＂cards＂have been published，and holders on both sides are aervous．The ground in dispute is very valuable．Cousiderable exclte－
ment has been created in certain quarters with regard to the Irving，which is chielly held by one man－Wian，formorly of this city．Tho workmen up． on this ledge are reported to have struck very promising ore，and appearan－
ces indicate the upproach of a good vein．The priucipal holder is rating atock at figures varying from $\$ 26$ to $\$ 40$ por foot．Winn claime that the

Fing is ats extension of the Comstock vein．The iden is probably a barmlese fancy．If it should provo true，however，we should be compulted to admit that the ways of Nature are sometimes tortultous in the extreme．

## WASHOE STOCK REMARKE．

## ［Compiled hrom tur Dahi Teriturlal Eitbiprige．］

Teminay Enzang，Fubruary 24tb．
Thero has been less done in stocka to－day than promised yosterday，yet a number of sales are reported．Bulion buyers havo not been very abuada seliers，but the result has been no noticeable change in our yesterdays fig ures．It is firm at $\$ 45$ ，with little in the market．Sucramento is in request al our quotationg of yesterday．Ten feet suld to day at $\$ 65$ ．Zousye
 10；$\$ 12$ is usw with fow buyers．Uuion Gold fill，is sought for， 0 the \＄10；$\$ 12$ is usked with fow buyora．Union，Cold Hill，is sought for，and the amonnt of assessments paid－ 816 －is freely offered．Considerable is chang－ ing hatds．There is something dolug in Fairview at \＄16．Toxas is quiet． It may be quoted at $\$ 7$（a）8．Pench and Paxton is advancing，and may be此（30．Pride or Washoe is salcable al from $\$ .5$（920

Wednbaday Evenna，February 25th．
The demand for stocks has been lively to day，wlthough transfers have ot beou numerous．Builion is quiet．It may be quoted at $\$ \$ 0$＠$\$ 45$ ．Sac－ ramontu is stilt in request at $\$ 65$（c）$\$ 70$ ，although litte is in inarket at these figures．Oriental is fuding fiver，abd duriag the past two days，some 300 leet have changed hands at $\$ 4$（3）$\$ 5$ ．It is in good request to day at these agures．Hazel Green is saleablo at $\$ 3$ 任（a）$\$ 1$ ，to fill orders from below． Dunn is held stifly at $\$ 10$（as \＄12，with an upward toadency．Uuion，Gold Hill，is firm at $\$ 15$ ，with che demand considerably execeding the supply． Madison has been enquired for at low rates，and a fow feot found sale at $\$ 18$ $\$ 20$＠$\$ 25$ is offered，however，without accomodation．Zouave still in de mand at yeaterday＇s quotations，with＇but lithe in the market．Two or three south extensious of the Bullion，at Gold Hill，have boen located，and the mytherious Comstock，on which this clajm is supposed to be sttuated，ia be jug freshly traced to the southward by exports and theorists．

Thureday Evening，February 26th．
Operations in stocks have been neglected to a cousiderable extent to day a preparing for the municipal contest of Monday．Madison，owing to the inabulity of the jury to agree in its suit with the Moscow，advanced to－day from $\$ 20$ © $\$ \$ 0$ ，and its tendercy is still upward．Fifty or slaty feot chan ged bauds at $\$ 26$＠$\$ 37 \frac{1}{2}$ ．Nothing has been done in Bullion．Owing to the eard of the owaers of the Coppers \＆MHIH，reaouneing all elaim to the Bullion ledges，the stuck is exceedingly firm at $\$ 45$＠$\$ 50$ ．Union at Gold Hill，has been extensively purchased during tho week，aud is now com－ mauding a karge advance on provious quotations．It camnot be quoted a less thau $\$ 25$ ，although one or two small lots were sold to－day at lower Fates．Its hopes of success agrinst the Yollow Jacket seem to be strength ening．The ledge in dispute is of first class value．Gov．Nye is in request at from $\$ 6$（a）$\$ 7$ ，and is being largely monopoliztd for the purpose of speca－ lation，it la presumed．Oriental is enquired for at $\$ 43_{2}^{\prime}$（a）$\$ 5$ ，to fill order from below．With these exceptions we have no changes of moment to note from our last quotations．

Fribay Efrenvg，February 27th．
There has not been much done in stocks，to day，although the market is exceedingly active．Bullion is quiet．Ten foot sold at $\$ 42$ 有，fifteen at $\$ 45$ ， and ten as low as $\$ 38$ ．Union at Gold Hill，is still upward in the market， and is inquired for al $\$ 20$＠$\$ 25$ ，with little accomodation at these fgures The Yellow Jacket is also enquired for at an advance．The ledge in contro versy is one of tho best in the Territory．Beach and Paxton is moeting with considerable favorable comment．$\$ 50$ is offered for it，without takers． This cumpany bas fled its papers of iacorporation．Biadison is offured at \＄35 © 40，with little deaiing at these rates．Harrison has advanced a shade in consequence of the suit，and may be quoted at $\$ 6$（ $\%$ \＄7，for locator＇s t － tle．Very fair looking quartz is being taken from the Irving，and the prob ability of striking a ledge of value in that claim is brightening．Oriental is in request at an advauce of about $\$ 1$ on yesterday＇s quotations．

Saturday Eviming，February 28th，
Nothing of apecinl importance bas been dune in stocka to－day．Inquiry has been rife，however，and is quite equal to the demand．Little has been done in Bullion．The＂cards，＂pro and con，in circulation，have affected the prices to something of an extent，and buyers and sellers are dervous．It
may be quoted at $\$ 40$ ．Union，Gold Hill，has been dealt in to－day at our quotatious of yenterday． 40 feet chauged hands at $\$ 20$ to $\$ 253$ ．This atock shows indications of an advunce．Yellow Jacket can be sold ot $\$ 210 @ \$ 225$ for accepted title，but it is obtained with diffleulty in this market．Oriental is advancing，for some reason－proximity to a ledge，we are informed．It is $\$ 5 / 8 @ \$ 6$ ，with little disposition to sell at those iguras． Beach \＆Ruston is saleable ut $\$ 60$ ，with little or none th the market．Pey tona is ouquired for at $\$ 35$ ，Stsison is offered for $\$ 25$（a）$\$ 50$ ．There is little probabiy，be sold for $\$ 40$ ．Sadison is ofiered for $\$ 25$（a）\＄uo．There is little
doing in Geller or Lai Crosse． reported as having been sold at $\$ 15$（3）\＄20．Hazol Green has advance a shade in consequence of favorable indications．It may bequoted at．$\$ 4$.


## [continusd from 2nd page.]

if this was the case, the film was so small as not to be perceptible."

## |remoting ascalgam and cleaning out arrasters.

'Raspando" (scraping) is the name given to the operation of removing the amalgam of silver and gold from the arastres. It is done as follows. At the end of about every quarter, or sometimes only half-year, according to the quality of the ores being ground, after the arrastres have been diseharged, the workmen proceed to scrape all the stuff from the interstices between the stones forming the bottom, which they do with hooked pieces of iron. The staff removed is a mixture of coarse pieces of stones-are very finely ground-and amalgam of siiver and gold. If the arrastre be entirely worn out, the whole bottom is removed and everything well scraped and cleaned, when a new bottom is again put in.
That which has been collected from the bottom is next well washed by hand, in bowls, in a a tank filled with water. A certain portion of the stuff to be washed being placed in the bowl, there is then added a small portion of mercury for the parpose of collecting the finer particles of amalgam, and prevent them, as much as possible, from being washed avay by the water. The bowl is now moved about in the water in sucha way as will best favour the collection of the heavy amalgam and the removal of the lighter or earthy particles which are collected in the bottom of the tank, and is again washed on an inclined plain called a "Plamilla," so as to obtain as much as possible of the precious amalgam. Still, some of this is in such a fine state of division, from the long-continued action of the grinding stones, that much of it is lost even by the second washing, and no method has yet been invented by which the last traces of this finely divided portion can be aaved. The amalgam, after having been collected and cleaned, is freed from as much mercury as possible by being pressed in a leather bag; the dry amadgam is next burned (as we shall describe further on) to expel the remaining portion of the mercary, when an alloy of gold and silver remains. This is next removed to the Gorernment melting and assay office to be melted into bars and assayed, before being sent to the mint to be "parted." This alloy is termed "Plata mixta" (mixed silver.)

> LOSS OE GOLD.

By this method of grinding there is still a large loss of gold. From 25 to 33 per cent. on the assay may be taken as an average, and it is said by some to be as high as 40 per cent. The whole of this loss has never been satisfactorily accounted for; but there is always a certain portion washed away in the form of very fine amalgam in washing the stuff from the bottom of the arrastres. The silver obtained frum the treatment in the patio always contains a certain amount of gold, and the "Polvillos," which are the metallic portions - (principally sulphides of iron rich in silver) remaining from the wasking of a torta, always contain gold. These "Polvillos" are treated a second time to retain whatever gold and silver they may hold; but they will not yield them by the common method, without a preliminary operation. I think it quite probable that the gold may exist in these Polvillos as a sub-sulphide.

LOSS OF MERCURY IN THE ARRASTRES.
In many works which treat on this subject it is stated that it is only the native metals that are taken op or extracted in the arrastres, and the "Asogerros" (amalgamators) in general think that to amalgamate any quantity of the precious metals an equivolent weight of mercury must be sacrificed. It is, however, very evident that in the arrastres the mercary actually acts on the sulphide of silver, forming metallic silver and sulphide of mercary. Thie following gives the details of an actual result obtained in a reduction works at Guanaxuato. The amalgam added to the arrastre was 70 .nos., and was composed of 14 lbs . of silver and 56 Hbs of mercury :-

Additional mercury added during the whole time of grinding (exclusive of above)... .330 ibs .
Mercury in amalgam added..
"Plata mixta" (gold and silver) obtained, inclading the above 14 , $7 \mathrm{bs}, \ldots . . . .$.

Amalgam which ought to have been produced. . 470 Hbs . But there were only obtained 400 羊s., which was composed 84 tbs. of gold and silver (plata mixta) and 316 Hbs of mer-
cury; which, deducted from 386 , the total number of pounds added, leaves a loss of 70 Ibs. Now the alloy contained 18 Hos. of gold, which being in the metallic state in the ore would combine with the mercury without loss of the latter. Consequently, if we subtract this 18 lbs of gold from 84 ms . (the total alloy) there will remain 66 lbs . of silver. Thus we have a loss of as near as can be one pound of mercury for every pound of silver taken up (bearly equivalent proportions,) the difference being easily accounted for by mechanical loss in washing, barming, \&c. Again, the ores worked in Guanaxuato contain but little or no native silver, the gold only being in that form ; so that it can only be the slow reduetion of the sulphide of silver, that canses the loss. If the ores ground contain much native silver, then the loss of mercary will be lessin proportion: Or, it copper amalgam in place of that of silver be added to the arrastres at the commencement of the grinding, the copper will in a short time disappear, and the loss of mercury will be somewhat diminished.
singusar and interesting amalgamating process.
The reduction of sulphide of silver by mercury is a very curious fact, and one which I believe has been pointed out before. Still the following statements may be interesting. I took a small piece of pure red sulphide of silver and ground it dry in a clean porcelain mortar for about ten mioutes with a small portion of mercury. At the end of this time the mercury contained a considerable quantity of silver, which could only have come from the reduction of the sulphide. In conducting this experiment, it is curions to note that after having ground the two substances together for a few seconds, the whole of the sulphide of silver $a p$ parently disappeared, and the mercury had all the appear ance of being highly charged with silver (of amalgam) and spread itself in the form of a paste round the interior of the mortar; but on adding water to wash out what we thought was a pure amalgam, we were disappointed at finding the mercury again assuming the globular form, having only taken up a small purtion of the silver, whilst the re maining undecomposed sulphide of- silver mixed with the water. This circumstance, 1 think, can only be explained by the mencury actually dissolving the sulphide of silver, which apparently can only take place in the dry. tate.

```
[то uk costavem.]
```

Copper. Speclnens.-We acknowledge the reception of some rery fine specimens of copper ore-green carbonateshowing much native copper, from Mr. Geo. W. Hodakins, of Tayler's Ranch, (Indian Valley.) The lead is located about 14 miles from the Valley, and was discovered in June last. The company, known as the "Mountain Meadow Copper Mining $\mathrm{Co}_{\text {; }}$ " are now running a tnanel, which has already been driven 125 feet into the hill, for the parpose of thoroughly deyeloping the lead. The specimens before as are certainly indicitive of a very rich mine.

Gowd near Brookfield, Mass.-We clip the followiug from the-Hampshire Gazette; Mr. Trusdell, of Warren, has discovered something approximating to a gold mine, on the road between Warren and Brookfield. He has six or eight men engaged upon a veiu of rock, which somewhat resembles the quartz of California and contains some kind of ore. It is very hard and much heavier than ordinary rock. Very many people have been attracted to the spot; but, as Mr. Trusdell holds possession of the mine, if it be one, there is not much chance for others to stake off claims at present. Those at work upon the vein are confident they have struck a gold bed.

Treasure by tee Golden Age.-The amount of treasure shipped by the steamer Golden Age, Monday, was $\$ 872$, 30431 , consigned as follows :-
To England...
\$711,742 66
To New York.
154,561 65
To Panama. .
5,00000
Rich Ore.-Some rich speciniens of silver ore from the Sheba and Ben Franklin leads, Humboldt District, may be seen at the office of H, Critcher, Stockbroker, 211 Montgomery St., and at Mr. W. P. Denkla, 608 Montgomery St. at Kenney \& Alexander's Bookstore. They are a portion of the specimens alluded to in our Fiditorial notice of the Humboldt mines.

## Engravings, Electrotypes, etc.

We execute at this Omce Engravings and Iilustrations on wood, stone,
copper, steel, atc. Stzagotpysa and Eikctroming, Designa of every de copper, steel, otc. StzabotpysG and Eurcrapmng, Designs of every de.
scription-Buildings, sketches of Towne, Machivery, Stamp Dles, Sealh for Cription-Buildings, sketches of Towns, Machiwery, Stamp Dles, Sealh for Patrons will remember that when we execute engravings we will insert them free of charge in the MIMNGGAND Scienturc Prass, thus piving the advantagg of a Wide Circulation throughout the Pacific Coast in the beat Advertising Mfediano to be found inthe country.

## To Printers.

An Intersst in one of the most flourashing and best paying Neweps per Offces in the mountains is offored for sale on easy ma. A rare op portunity is hercby presented to any printer desirous of extablianing him self in a good business in one of the bealthiest, most thriving and delight ful mountain towns in the state. For further information enquire at this office.

Subscribe.-Are yon a miner and not a subscriber to the Mining and Sclentific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practial information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the MINing and Scientific Press. We invite all to send us their bames and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examing tion, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subseriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the preaent, send the Press for three months even, on the recelpt of one dollar, in coic or stamps. It is our belief that no one will wish to discontue the paper after being a constant read er of it for even that short perioa.

## SUGGESTIONS ABOUT FOREIGN PATENTS.

American inventora should bear in mind that, as a general ale, any iovention which is valuable to the patentee in this country, is worth equally as much in England and some othor foreign countries. Four patents-American, Eoglish,French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are sacb, that patents can be obtaived abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained through the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Govern-
ment, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, etu., with promptness and dispatch.
Models are not required in any European country, but the atmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravings should not be published until the foreign applications bave been made.
Caution.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such applications as they may otherwise fall into the bands of irresponsible parties, and thus be defrauded of their rights. It is much better for iaventors to entrust their cases to the care of a competent, reliable agent at nome.
While it is true of Most Enropean conntries that the sygem of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal examination; as it is a common practice when a patentee finds parcbaser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrast a valuable invention to any other than a solicitor of known integrity and ability. Inven tors should beware of epeculatore, Whetber in the guise of patent agents or patent brokers, as they cannot ordinarily bo trusted with valuable inventions.

LOWER CALIFORNIA Colonization and Mining Company, THE AGESTS SENT TO MEXICO BY 125,000 Acres of ricu agrictltural land, and a valuably Allver Mine,
The Company in now prepured to furaish exact informatuin tu Culutints who have already ungaged, or those
sbout th engage in tils bout tis cagage in tife

## SPLENDID ENTERPRISE.

It proposes to aend a vessol about the firnt of March
next, und there being but a limited bumbur of shares NO THHE SHOULD BE LOST BY COLONTSTS.
Farmera Miners and Mechanicg,
Wuh families are particularly invited by the authoriLies of the Territory. The Iand solected, in polat of ferthity of suil, in not excelled on the Continont. The elimate is unsurplessed in the world. The richest Silver Mines knowa to oxist iu the Territory aro in the immedl. ate vicluity and hordering on tho ngricultural lands of
the Colouy.
N. B. Bear in miod that a suare costs, at present, on1y 8200, whiteh ontitles the holder to free transportaHon for Belf, family, and articley of persumal use aud an equal sharo in the land, the Complany's silvor 3 itae, ote. the wholis entorprise, belug for the mutual benoft of merabers ouly.
Full Information can be had, and Minoral and Cotton Specimuts seen, by applylug at the Uince of the Compa by, North-spest corner of Cluy and Frout Street.

## BOARD OF TRUSTEES.

A. G. RANDALL Presirent. CAPT. JNIN II. BESL, V. President.
 Bwov, H. C. Patrunge, 1. Rowril, 3F. D.
Commitite un surfey, -E. Houmas, Special Agent Capt. K. C. ANDRsws, Survoyor.

LEANDER RANSOM,

## Civil Engineer

 ANDSURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO
STATE LOCATING AGENT.
And as suat haverge the ame or
600,000 A ORES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twanty por cent in eash and the balance on arremit of several years.
orFICE: Second floor of or of Mon Sgomery nad California atreets.
net

## HAYNES \& LAWTON,

 IMPORTERS AND DEALERS INCROCKERY, GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS,
Silver Plated and Britania Ware, ETC., ETC., ETC.

NO. 516 SANSOME STREET, [CORNER OF MERCHANT,]
no16 San Francisco. tf

Attention ! Attention!

 nansextments it Real Eshate, it is well known, hav of devirectution in value is sccured by the suro and rap id hecrethe of our population.
Invest in Revil Estate, and you will fadd it moro profta. ble than investimg in with-cit muing stock, or poutuing

 The eithe th the land in perfint.
For further particulare apply

> harvey s. brown, No. 19 Nagloe's Builling.
Lithograpble Nfaps can be seeu and had at the abnv named ollice.
A. ROMAN \& Co.,

Book Establishment,
417 and 419 Montgomery street, San francisco.

Orders reapectfully solicited aud promptly attended to Tretaise on Metulurgy, Comprising Mining and Gen
oral and Pirticular Motallurgical Operations, Etc Etc. By Frelerick Overmans.
A Munul of Meralurgy, or A Practical Treatise on the
Chemistry of Metals.
Records of Mining and Motallurgy, or Facts and Mem-
orandn for the Use of the Mine Agent nad Smeltor.
By James Phillips and John Darlington.
Manurl of Metallurgy, more jhucticularly of the procious
metals; but includ ing such ouhors as are employed
figgot on the Chemistry and Mining of Cunper.
Piggot on the Chemistry and Mining of Cunper.
Practical Mheral Assaying and Mining. Overman.
Gold stiniog and Assaying; by Phiips.
Miners' Companion and Guide, compiled by Silversmith
Miners' Companion aud Guide, compliled by Silversmith.
Assayers' Guile; or Practical directious to Ascayers, Miners and Smelters.
Practical Assuying, by Michell.
ilrer ores and Silver Mines, by Pro. Blako.
Ure's Dictionary of Arts, Minnurtactures and Mines.
Weisbach's Mechanice of Machinery and Engineoring Nevillo's Hydraulic Formula Tables.
Fresenius' Chemical Anafy
Together with many other works in this and similarlimes
nes Books imported to order on short notice. Ta A. ROMAN \& Co.

417 \& 419 Montoomery Street.

COAL OIL EXPLESTON-ON SATERDAY EVENNVG, Street House in pouring coal oil from one can to another, bis wife imprudently approached with a lighted candle and the oil exploded. Mra. Brewster's arms were budly burned, as were ulso tho huabrnd's hands. However, he succeeded in mastering the Alames, aind preventing
worso consequences.-[Eveuing Bulletiu, Aug. 4.

## THEN THIS!

Comet Illumitating Oil !
İanpfactured expressiy for Stanford Bro.
THIS POPULAR
Brand of Kerosene ted free from Camphene, Petroleum,
other explosive material, and 15 the
BEST FAMILY OIL IN THE MARKET. STANFORD BROTHERS,

Nos. 121,123 and 125 Califremiar street
Jut $\mathfrak{B e a c f t u n g ~ f i i r ~ e r r f i n d e r . ~}$
Erfinber, meldje nidft mit ber englifden Spradfe Sefant fint, fornen ifre mitthungeneil in ber beutidjen Spradje madien
Stizjenvon ©rfinturgen mithirzen, beutlidy geidyriebenen Feidgreibungen betiebe man zu aborefifiten an.

$$
\text { J. SILVERSMITH, Exehange Building, Roon } 23 .
$$

## Gird's Budding Kinife.

T
TRE ATTENTTON OF FARMERS, HORTICLUTURISTS mplements, are reterred to the above invention. For description and engraving see MnNaNG AND Sctenturic
Press No. 24, vol. Press No. 24 , vol. F .
State, Torrritory and workshop rights for sale at rea-
sonable prices. Address, Publishers of Mining \& Scientific Press,
(Ageut for Patentee, sep1-sm

The Occidental Hotel Open for the Reception of Guests
$T^{\text {his mouse has all the monern improve. }}$
been fited up whmp helar refermitidy the roums, have
News stand,
OABINET FOR MINERALS;
A Branch Telegraph Ofice,
Connecting with all the linea throughoutho cond LEWIS LELAND \& CO.
San Fraucisco, Jan. 1st, 1863.

MUSIC! MUSIC !! MUSIC!!!

## A. K $\overline{O H} L E R$,

IMPORTER OF EVERY DESCRIPTION OF Musical Instruments \& Musical Merchandise SHEET MUSIC \& M'S'SICAL BOOKS. GENUINE ROMAN STRINGS, de.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstrung Pianos.
Wherever thees inctrumouts are kuown they
RANK AS THE FIRST AND BEST Instone, delicacy of touch and durability. All the leading Musicians of the country have testified to their superiority.
A. KOHLIER, Agent for the Pacific Coast.

MELODEONS AND HARMONIUMS,
from the celebrated manufactory of
MASON \& HAMLIN, Warrauted superior to all others.
ver Send for a cataloguo and Price lat.
${ }_{007}$ A. KOHLER, Agent.

## To Mill Owners.

Wannte, by a person fully competent to the position,
 Sine. The Apulicant was eagatged for about eight years
as Superinteudent of Copper Miving Worbs in Cornwall as Superantendent of Copper Mising Works in Cornwall,
aud bas aeted in the sume capaciy in Gold Mines in and has acted in the same capacity in Gold ajines in thise
State for the past seven years. He has had much oxpe-
rience to rience, in Cornwall, as an Assayer, a Machinest,
a Draugheman, a Surveyor and an Assorter of Copper a Draughisman, a a surveyor and an Assorter of Copper
Ore. He can give ample testimonies as to his capacity


## W. T. \& J, GARRATY,

## Gity Brass and Bell Founders

Cor. Fixst \& Market sts., San Francisco
$\mathrm{B}^{\text {ABBET METAL CASTINGS, FIRE ENGINES, HORCE }}$ ern and Hand Bells and Gongs, Hose and all other joints,
 POSES, Iron steam pipe furnished with fittings, "ce.;
COUPLING JOINTS OF ALL sizes. Manufacturers of "Gar ratt's Patent Improved Journal Metal.'

## SQUARZA'S PUNCH

FIRST PREMIUM
at the sacramento agriculturall state fatr

## FOR 1862.

ALSO F FIRST PREMIUM
At tho San Fraucisco Bay District Agricultural Fair, 1862 MAncfactory, Whoussair apd retal,

No. 44 Leidsdorff street,
Opposite the What Cheer House, San Francisco.

## LATEST IMPROVEMENT

in Ladies' Buckles.



beauty render them the most asefulu as well as ornamen-
tol trinkens.
Ordars from the contry rospectolly solicited. For


GREAT REDUCTION in prices.
STANFORD BROTEERS, 121, 123 and 125 Califormia Street,

Keep the Largest Slock of all Kinds of
Lamp Stock
And will Sell Cheaper than any other
fiouse in this state Lamps, Chimneys,

## Wicks, Campiene,

Burning Fluid,
Axcohol, Coas OH,
Turpentine, Kbrosran Oun,
COMET ILLUMIIATING OIL,
Sperm OII, Lard Oil,
Machinery Oif,
Rape Sked Oru,
Carna Nut Onf,
Polar Ou,
Linseed Oil, Raw and Boiled,
Shark's Oif,

## Neat's Foot Orm,

Tanners Oifl, Eto.
Our customers in particular, and the country trade generally, are requested to ascertaiu our prices before pur-
chasing from travellug agente, so wo will sell at less rates than they can afford to.
apl 18 tf

## 60 lbs. MARINE AND

Fire-Proof Paint,

 tharge and six other Minerals. When used on the Decks or Bottoms of Ships, it is equal to a coat of Stone, and
quite equal to Copper, no worms will ever effect it, and cheaper than any other paint.

## DIRECTIONS :

For Decks of Ships, use two parts Mineral Paint, one part White Lead, mixwith Lisseed Oil.
For Bottoms of Vessels, use one part ground sulphur three parts Mineral Paint, mix with Coal Tar and apply it hot. For ale by allShip Chandlera and Tradesmen, in bozea of 50 l t s . each, or by the Pacific Metallurgical Works.

25 POUNDS FIRE-PROOF PAINT.
When used on Roofs, Buildings, or Fences, it is equal to covering them with a coat of Stone, being perfectly Fire Proof, and cossting lese than any paint.

## DIRECTIONS :

HOUSE :-Mix three parts Mineral Paint with one par white lead, thin with Linssed oil: if a lighter color is ROOF :- Five parts of Mincral Paint, one part white Lead; mix with Linseed oil. Put it thick on a tin Roor as one coat when properly appliedwill last three years.
S. C. BRADNBAW, Agt.,
G. T. Fourue, Superintendent.

WOKES, North Beach; Office, 318 Californiasto, Sun Frameisco.

## WRIGHTS PICKS,

TOHN WRIGET, of Sacramento, bas establisned himself in San Francisco for the manufacture of every description of 1 ICKs, of tho best material, at reduced prices. Prer Eress of the best iron farnishedin any quan tity, al low rates Orders from the country promptly attonded to. N. B, -None genuine unless stamped with my namo. JOHN WRIGHT, 511 Manket street,

## REMOVAL

OFICE OF THE PACIEIC METAL Having enlarged our Works at North Beach, we are now cabled to reduce from 10 to 15 tous of Silver or Gold and Silver ore, and Sulphuret Assaye
versmiths' 'woepings reduced or purchased. Versmiths swoepings reduced or purchased. cash, for shipments. S. C. BRADSHAW, Agont, 318 Califorala street, дear Sansome, ug stairs.

## SPE CIAL NOTICE.

OFFICE OF OPHIR SIL VER MINING CO., San Francicco, March 6th 1863.-A dividead on the capital slock of this Company has been declared, paysble on and after the 9 th inst. The transfer books will be closed from this date uutil the gth inst.

$$
\text { mar6 } \quad \text { THOS. J. LAMB, Secr etary. }
$$

## New Style of Lady's Buckie.

 W. BOHM, INVENTOR \& PATENTEE $T$ Re SUBCRIRER HAVING OETANVED LETTERS PATTconstrit from owashingtor for an improvement in the nish the same in eyery variety of style. This buckle possesses severalotther in use. The invention laving been carefully examíod at the
Patent Office, has been adjudged to be a useful improvePatent Office, has been adjudged to be a useful improveIt excells all other buekels in

Usefulness, Strength and Appearance.
The Public is respectrully invited to call and examine this Buckle at the Jewelry Establishment of BR AVERMAN \& IEVYY,
621 Washington Street, San Frameisco.
JOSEPH, BROTHERS, 607 Montgomery Street, San Fraucisio. 118 I Street, Sacramento.
Every Buckle sold will be gaaranteed as to its Stteng th
W. BOHM, Patentee. and Durability.

## Instruction in Assaying. Etc.|

 Ang the whole of his time occupied with his presof Chemistry rud Hetallurgy, is willing to teach the
method of assaying Govo, SLEER and COPPRR, alone, or to teach the regular systematic course of Qualitative or Quantutative Chemistry

Address, T. P.
Post Office, Box No. 167.
Wanted by an Intelligent and active young man a Siuation by which he may obtain an, honest livelibuod. He is about 18 years of age, and is a good

Miners' Foundry -AND-
MACHINE WORKS,
Firgt St, between Howard \& Folsom, saiv francisco.

F Very description of Iron and brass Mackiin nery, the Best and Most Econnmisal, manufactured in thn state of Calitornia, will be furnished with dis-
patch at the Miners' Foundry and Machine Works, as: STEAM ENGINES AND BOLLRRS, FLOUR, SAW AN QUAPTZ MML MACBINERY, MNING PUMFS amalgamators, retoris, erc., erc.
Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various mudels of Quarlz Crushers, Amalgama tors and Water Wheels-some in operation and on exb \#\#* Parties desiring to test their ores practically, i
small quantities will be afforded ample facilities, free of
cost. cost.

All parties desiring accurate and highly finished draw are cordially invited to call before contracting elsewhero

HOWLAND, ANGEL \& KING.
San Fraṇisco, February 23, 1863.

## VULCAN IRON WORKS CO.

P. TORQUET
R. IVERS.
C. R. STEIGER.

MANAGER

## Steam Engine Builders,

Boiler Makers, Iron Founders and Genexal Engineers,
Nos. 137 \& 139 First Striket, -.... San Francisco.

Stesymoat Mageneky built and repaired ; also Saw Flour and Quartz Mills, Pumping abd Miniog Machinery
etc.,
etc., Propriotors of Norse's Patent Firc Grates, Jofval, Fouratyton and ollee Turbine Water Wheels, with latest improvements.

## PALMER, HANSCOM \& CO.,

GOLDEN STATE IRON WORKS,

## No, 19, First Street, San Franciseo,

Furnish Castings and Machinery of all kinds

Genuine White Iron Shoes and Dieg. PALMER, HANSCOMB \& CO.
To Quartz Miners.
Kinox's Improved
AMALGAMATING PAN, WTH
PALMER'S PATEN'T STEAM CHEST.
$T$ HE ABOVE COMBINATTON EECORES THE MOST
1 complete amalgamation of the precious metals of By it steam is introd.
By it steam is is introduced in the most effective and economical maoner, while it is pecaliarly adapted to the
catching of flosting gold and silver, known to be other. wise lust. Híade exclusively by PALMER, HANBCOM \& CO., PALMER, HANBCOM \& CO.,
GOLDE STATE IRON WORK, Nos. 19 \& 21 Furst Street, San Francisfo.
The public are informed that Letters Patent have been toms for ungrigua un Bo toms, for the inside of Amalgamating Pans or Tubs, and are cautioned agaiost making, buying, using or selling
the sume without his consent. W. A. PALMIER.

## FULTON FOUNDRY \& IRON WORKS

HINCELET \& CO.,
manufatiturers or
Steam Fingines,
Quartz, Flour and Saw Mills; Cast Iron
Fronts, for Buyldings, Mining Pumps,
and all kinds of Machinert, Etc.,
FIRST STREET,
Between Market and Mission............San Francisco.
** All tinds of Iron and Brass Castings furnished cast. Repairing of Machinery neatly done. Pattern Making in all its various forms. Prices low D. B. Finckley. Wm. E. Worty. Wm. A. Fikid.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel
THE SIMPLE, COMPACT, STRENG AND
effective manner in which it is applied to any height of fall, ( 3 feet to 300 , and to any kind of machinery, will Save in Transportation, Material and Labor, from 25 to 50 iper cent. of the entire cost of the Structure to which it is applied, and proportionally increase its value.
For full information from the Inventor, apply at the Miners' Foundry, from 10 to $11 \Delta . \mathbf{x}_{\circ}$, or address
J. M. BETH.

Miners' Foundry, San Francisco.
was. This Wheel is fully guaranteed.
Jan19-tf

## Agency For Patents.

THE THDERRSGNED having been long established in the Patent Agency Business, and haviag faverable
arrangements for attending to the interests of inventors arrangements
at the Patent orice in Washington, offer their services
ofor for the securing of Caveats and Patents also, will at-
ten, to the sales of Patent Rights, and to all matters connected with patented inveations.

WETHERED \& TIFFANY, Office, 410 Montgomery street.

CHARLES R. BOND, (Iate City and County Assessor.) REALESTATEAGENT, No. 410 Montgomery street, San Francisco. REAL ESTATE PURCHASED AND SOLD, AND LOANS NEGOTMATED.

SQUARZA'S PUNCH. HOME MANUFACTORY. Wholwale and retar,
No. 44 Leidesdorfi st.0 mear Sacramento Branch at 406 Montgomery street.

## P. M. S. CO.

PACIF IC MAIL STKAMSHIP COMPANY'S road with the steamers of the $\Delta$ tlautic and Yacific Steamship Company at Aspiuwall.

FOR PANAMA.
The following Steamshipg will be dispatched in the month of Fobruary, 1863.
March \&nd, - - - Steamer Golden Age. March 11th, - - - - - Steamer Sonora. March 21st, - - - Steamer Constitution.

Will leave Folsom Street Wharf, with Passengers and Treasure, for Punama

AT 9 O'CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railroad, at Aspiawall, with teamships for Now York.
For Freight or passage, apply to
A. B. FORBES, Agent.
je
Cornor of Sacramento and Leilesclorif sts.

## PEOPLE'S

Steamship Line! CONNEC'IING

## California and new york, V1a nHCARAGLA,

T50 Billes Shon ter than any other Ronte
The Fast and Favorite Double Eogine Steamahip,
MOSES TAYLOR, E. How

Will be dispatched for

> San Juias del Sur,

Punctually at $90^{\prime}$ clock, A. M. , on
WEDNESDAY, - - MARCH 11. 1863. Connecting at GREYTOWN with the Splendid Ster mbhip

## HLEXOIS

Reduced rates of Passage and quick trips are secured
by the re opening of the Nicaragua Route.
These Steamers are unsurpissed for speed, cleanliness and safety, and every effort will bo made to in insure the comfort of passengers
For further information apply to
a No. $10 \%$ Washington Street, opp. Post

## DONAHUE'S

Union Iron and Brass Foundry,
Coramer of First and Miseton Stremts, San francisco

## The Firat Established in the State.

MANUFACTURE STEAMENGINES
Quartz Stampers, Amalgamators, etc., etc., at reduced
Quartz stampers, Amalgamators, etc., etc., at reduced
prices. Have now tho largest and best assortment of
Gear and Machivery Patterna in the State, a lint of which will be forwarded to bNyone desiring it it rree
cost.
PETER DONAGIJE

## IIoliday Presents!

## IN

WATCHES,
DIAMONDS
JEWELRY AND
SILVER WARE

## $\Delta$

BRAVERMAN \& LEVY'S, 681 Wasnington Street,
$\mathrm{W}^{\mathrm{E} \text { CALL TRE }}$ the public in general to our well assortcd stock of JEWELRY AND SLLVER WARE,
of the latest and Most Fushionable rtyles, which we ave received by the last Steamer. Arso,

FRENCH CLOCKS,
PRECIOUS STONES,
Which we are selling, SET or UNSET, at the very LOWESI PRICES.

BRAVERMAN \& LEVY,
No. 621 Washington S
Dec 29 1m

WHEELER'S
Amalgamating and Separating Pans,
It is acknowledged by all who have examined the principles and wituessed the operation of these Pans, that they are decidedly superior for triturating aud amalga. mating purposes to any other in use.
The most important principle counceted with the ope.
ration of thesc Pans is the separation of the triturating ration of thesc Pans is the separation of the triturating process from tbat of extractiog the amalgam from the
saud. The chief cause of loss of she precious metals arisaud. The chief cause of loss of the precious metals ari-
ses from the passing off of the same in combioation with ses from the passing off of the same in combibation with
the quicksilver, during the procos of trituration, and in cleaning up. By the introduction of the Separating Pan
to frllow the trituration this loss is entirely aroided. In to fillow the trituration this loss is entirely aroided. In
working these machines there is no appreciable loss of working these machines there io no appreciable loss
quicksilver, und bence none of the precious metalo nuicksilver, and bence none of the precious metals.
Where these Pans bave bcen intronuced and operated
by the side of others on sands from the same vat, the by the side of others on sands from the same vat, the
Wheeler Paus have uuiformly gained a large fercentage Wheeler Paus have uuiformly gained a large percentage
of metals over its competilors, as well os a stll larger pricentago in the amount of word performed.
*** These Pans man be seen in daily operation, at the Miner's Foundry, on First street in this city, where all interested are invited to call and examine for themselves. nol6-tf ZENAS WHEELER.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
san fbancisco.
CLEAR GOLD BEARING SCLPHCRETS WORFFD AT
Cicil Szu PLR TON. All, the Guld lixthacted by Cheinical process. Yield of Sulphurets from 20 to 50 per cent
higher than the BEST ABAL.GAMATION PROCKSS. asp Apparatus for separating Sulphurets set up by experilnced bands at a cost of $\$ 50$ to $\$ 100$, if desired by
mill owners. No power nor clean water required for me purpose. No power nor clean water required
nov $8-3 \mathrm{~m}$

## JULIUS SILVERSMITH,

Commissioner for Nevada Territory, OFEICE, IN LATE STATE CAPITOL,
Corner of Battery $\&$ Washington streets.,
Room 23, up stairs. Room 23, up stairs.
$W^{E}$ WOULB RESPECTFULLY SOLICTT FROM THOSE Who have busineas relationswith the above bamquiring the official action of a Commissioner-anch a che drawing up of affidavits, acknowledgments, the tulsing of testimony, etc.

LEWIS COFFEX AND RISDON, STEAM BUILER AND SHEET TRON
WORKS.

The only exclusively Builer Making Estallishment on the Paciac Coast Owned and conducted by Practical Boiler Makers. All orders for Now Work, the repairing
of Old Work, executed as ordered, and warranted as to quality.
Oid Stand, corner Bush and Market Streets.
Opposite Oriental Hotel, San Francisco, CaI.
LEWIS COFFEY

## JAMES PBELAN,

 (Late J. \& M. Pallan,)IMPORTER AND JOBBER,
Wines; Liquors, Ete., Etcy
Nos. 616 \& 618 Front street,
Between Jackso
Established 1849 .
SAn Francisco.
All Goods Guaranteed. Orders Solicited. TERMS LIBERAL.

For Sale Cheap!
A HORIZONTAL STEAMM ENGINR OR capable of driving a ten stamp mill, for sale at half its origieal cost, Apply to

Federal Building, cor. Battery and Washington st

THEODOR KALLENBERG
Maker of Models FOR INVENTORS.
M ACAINES, MATGEMATICAL, Optical and Philosophieal Jostruments, Scales, Weighta, etc.; ; Steel
In, Dies and Dic Sinking, Emboseipgstamps. tamps, Dies and Dic Sinking, Emboseingstamps.
Repalring of Naclinery promptly attended to. Repaling of Machinery promptly attended to.
No. 4 Sansome street, corner Marlet,

The accompanying engraving is a very correct and well executed illustration of "l'ond 8 Patent Quartz Crusuer," of which wo have hertofure made several notices. This is one of the most original conceptions in the line of quartz crushing machinery, which has ever been introduced to the pablic, since the first application of the origiual, ironbound wooden stamps. Mr. Pond has gone back to first principles and produced a machine, involving the most economical use of power, and combining at the same time simplicity and cheapnoss of construction, efficiency of action, compactness and lightness of metal, etc., which places it in most favorable contrast with anything of the kind heretofore introduced.
The production of this machine has not been the result of a casual thought, but of long contioued study and most diligent practice and experiment, The iaventor has had the advantage, in these experiments, of several years experience as a quartz miser, and a thorough practical education. He bas nearly worn out his original working model, which, as an xperiment, was but imperfectly constructed, in studying its principles, and testing, in the most thorough manner, every part and parcel of the machine, until he has at length produced one wherein he can devise no improvement, or discover any defect. We have watched with much interest the gradual development of the present machine, as piece by piece, it has come from the hands of the worknen, each part carefully studied and improved from the original model, until its completeness was reached, and the machine set in motion at the Miners' Foundry, in this city, where these machines are now being constructed. We should have given a full description of it at an earlier day, but we have been waiting for the accompaning illustration, by the aid of which wo might be able to give our readers a more clear understanding of the prineiples of the machine.

## tele illuetration.

The above illustration represents the machine with a portion of its side casing removed. When it is ready for operation it is closed as tightly as possible on all sides except on the right hand iu the engraving, marked J, where a screen of any required fineness is placed. When the rock is to be crushed dry, this screen, or rather that end of the machine is fitted into a tight box of any required dimensions, for receiving the pulverized quartz which finds its way through the meshes of the sereen in the shape of an impalpable powder:
$A \mathbb{A}$ is the bed plate upon which the machine is construct-

ed, $B$ being a movable die, fitted into the bed-plate, against which the hammers strike, as seen in the lower one in the engraving. To the shaft D is firmly fastened a massive center piece, $E$, which is cast with jaws or grooves for the arms F, F, F, F, they being held in their places by bolts as at L. The shanks of the hammers $\mathbf{H}, \boldsymbol{H}, \boldsymbol{H}, \mathrm{H}$, are held in their places hy hardened steel bolts at $G, G$, $G$, and so constructed that they can move backward after striking the die $B$, pass freely over it, and immediately by their centrifugal force fly out into position as represented in the engraving.
On the face of each Hammer is fastened a Shoe, I, made either of cast or wrought iron, or steel, and hardened. The Machino when running is entirely enclosed by the sides and rim The rock is fed into the Box, C , drops immediately in front of the Die, where it is crushed and carvied over on th the Screen, J, hy the motion and shape of the Hammers, where the fine material passes out, and the coarse returned in front of the Die, is again crushed and thrown over until it is all fine enough to pas̃s out througli the Screen, which may be of any required fineness.

The amount this Machine (four foot) will crush is from Tuelve to Tenty Twons per Day, depending upon the speed it runs and the power expended. The machine can be used either for Wel or Dry Work. For crushing Twelve Tons per Day it only requires Five Horse power. It is easily
kept in order; the wear and tear being a less cost per ton than in a Stamp Mill.

Great numbers of persons, expe rienced in quartz crushing, have witnessed the operution of this machine, and so far as we have heard, (and we have conversed upon the subject with many) all have expressed themselves most favorably impressed with regard to its working.
We understand that the machine will soon have a fair trial by the side ot one of the mammoth Mills on the Fremont (Mariposa) Es tate. Quartz Miners, visiting the city should not fail to call and examine this machine, as well asseveral improved descriptions of amalgamating pans, which are constantly in operation, every day, at the Minere' Foundry, on First street, where others are in course of construction.
These Machnss are so simple in the ir construction that any oue can put them together after they have been transported to the lo cality for which they are designed They are made in three sizes, as follows:
A 2-foot Machine rill erush from 2 to 3 tons; weight 1,000 lbs. cost $\$ 500$ A s-foot co " $\quad$ " 108 " " 8,500 lbs. cost 750 A 4 -foot $\quad$ " $\quad 12$ tu 20 " $\quad$ b 500 lbs cust 950 The 2 Foot size is for a Prospecting Machine; the other two sizes can be set up. at a mill for fifty dollars (exclusive of freight) ready to run.
Malitng Steel in Laree Masses.-Mr. Alfred Supre, of Paris has discovered, that by covering steel with bottle glass, or the slag of a charcoal smelting furnace, it may be melted in a reverbatory furvace easily and rapidly, and without losing any of its qualities-two tons may be melted at once in the same furbace. Although the furnace in which the expariments were tried was detective, it was found that in consequence of crucibles being dispensed with, and less fuel being required, a considerable economy was effected.
Thif Art af Printing.-A jubilee will soon take place in Vienna, in honor of the four hundred years existence of priuting in that city. The first Vienna pripter, Olrich Hann, opened his printiog office in 1432 , but did not succeed. and emigrated to Rome. He was the cause of the Emperor Frederic IV. bestowing a privilege on the printer, in the year 1468, which plaped them in equal rank with noblemen and scholars, and permitted them to wear a sword,
The London Rothschild has had a Carrara marble stair case put in his house al a cost of $\$ 150,000$

#  

THE MEXICAN METHOD OF AMALGAMATION.
BY JAMES NAPIER, JUN. F. C.'s.
Late Chemist and Assayer to the Guanaxuato Mint, Mexico.

## [COATLXED.]

The materials absolutely necessary for the reduction silver ores in the Patio are but few, namely-sulphate of copper, or magistriat, common salt,' 'chloride of solium and mercary. But the various modifications introduced have led to the employment of other ingredients, such as precipitated copper, copper amalgam, and fine amalgam.
1.-Magistral, or Sulphate of Copper.-This is manufactured from the sulphide of copper, mines of which exist in many parts of Mexico ; but the distict of Tepezela, about 18 or 20 leagues southeast of Zacateras, and about 65 from Guanasuato, perhaps sipplies the largest quantitities of this ore for the manufacture of the sulphate. The following shows the per centage of copper contained in Farious samples from this district :-

Copper per. cent.
$\left.\begin{array}{r}13.00 \\ 7.47 \\ 13.75 \\ 9.00 \\ 12.50 \\ 10.50 \\ 8.60 \\ 9.40 \\ 8.73\end{array}\right\}$

There are many much richer samples found in this local: ity, but these give a very fair idea of the class of ores generally sent to the various reduction works for the manufacture of the sulphate.
The sulphide of copper when brought to the haciendas is, Fike the silver ore, first reduced to a fine powder in the arrastres; but in grinding this, much more is charged to the arrastres at once, and they are discharged twice in the 24 hours. The ground ore is renioved from the arrastre to a small enclosure, where the water, with which it was ground, Is allowed to eraporate spontaneonsly, and where it is allowed to remain exposed to the air for a length of timesometimes two years-before being calcined. It is stated the Fonger it is exposed to the air, the more sulphate it will yield. I have examined various samples which had been exposed for a length of time for sulphates, but have never found any.
The furnaces in which this is calcined are called comalilios. They have a double hearth; the roof is almost quite flat; and the fire-place is in the centre, and runs longitudinally, so that the flame plays sideways. About eight arrobas of the ground ore (havirg previously had is few bandfulls of common zalt mixed with it) is charged cn each hearth. The fire is then gradually increased, and the ore kept almost constantly stirred for the space of from six to eight hours, when the doors and other openings are closed to exclude the air. When the whole is sufficiently cold to ensure no further calcination, the ore is drawn 1. through holes in the bottom of the furnace into a place , made for its reception.

The percentage of sulphate of copper obtained by this method of calcination depends very much on the care which .has been bestowed on the operation by the workmen. The following table gives the details of this operation as obtained in a few of the reduction works in $G$ uanaxuato.

| Name of <br> Haciendas, | Sulphates per cent. |  | $\left\{\begin{array}{c} \text { Total } \\ \text { por cent } \\ \text { of } \\ \text { sulphates } \\ \text { orsiled of } \end{array}\right.$ | Copper |  | $\left\{\begin{array}{c} \text { Ore } \\ \text { beffre } \\ \text { cal- } \\ \text { cining. } \end{array}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Copper | Irou |  | $\begin{gathered} \text { II } \\ \text { sul } \\ \text { phide } \end{gathered}$ | \|cis |  |
| San Joaquin | 40.99 : | 9.73 | 50.72 | 4.50 | 2.11 | 15.90 |
| San Nicolas. | 20.50 | 12.38 | 32.88 | 2.50 | . 23 | 7.83 |
| Granaditas.. | 34.37 | 6.95 | 41.32 | 3.78 | 2.47 | 14.00 |
| Salgado | 24.64 | 7.40 | 32.04 |  | 2.50 | $8.0 n$ |
| Pardo. | 33.18 | 6.75 | 39.93 | 3.00 | 3.50 | 12.80 |
| Pastita. | 31.62 | 9.05 | 40.67 | . 70 | . 15 | 8.75 |

In this table I give the amount of sulphate of iron as well as of the copper, because it is certain that the salphate of iron also acts in the process of reduction, although not so perfectly as the sulphate of copper. A little of the copper given above as sulphate, will be in the state of chloride, formed by the decomposition of the small portion of salt added to the ore before calcination.

- In some districts sulphate of iron is mised with the sulphide of copper previons to calcination. By doing this, ores containing considerable quantities of carbonate and oxide of
copper may be used for the manufacture of magistral. The method employed by the amalgamators tó kuow good from bad magistral, or rather to know the strength of it, is very rude. They take a small portios of the calcined ore in the hand; then gradually immerse the hand in water, and from the intensity of the heat gireu out, they judge of the quantity of sulphate the sample is likely to contain, and how much will have to be used in the process of reduction.
They also like to employ the magistral as soon after calcination as possible, as by standing it absorbs moisture from the atmosphere, and a larger quantity is required.
All the sulphate of copper produced in the "apartado"* of the mint, from the precipitation of the sulphate of silver by copper plates, is used in the reduction works in place of calcined copper pyrites. In this case it is easy to calculate how much must be added to a tortc, and in using this torta is not augmented so much in bulk as when calcined pyrites is used.
2.-Sall.- There are various places io the Republic of Mexico where this article is obtained, but the principal localities are Peum blanco and Salinas. The former contains both salt lakes and springs; the latter were discovered by an English gentleman, Mr. Pollard, who was employed at this locality in extracting the salt from the earth (Salierra) of the lakes. The following analysis made at the Ecole des Itines, Paris, is of the falt earth from Penon blauco.
$\left.\begin{array}{l}\text { Chloride of Sodium...........19.00 } \\ \text { Sulphate of Soda..........20 }\end{array}\right\}$ soluble in water. Sulphate of Soda...
Carbonate of Lime Carbonate of Lime....... Carbonate of Magnesia.......... 1.60 Oxide of Iron.................... 1.80 Clay and Sand....................46.20
Water and Organic matier...... 7.60


## 100,000

This class of salt earth was formerly used without refining in the reduction works of Zacateeas, but the augm entation in the bulk of the tortas in consequence of so much having to be added for the purpose of obtaining the necessary amount of chloride of sodium, was very inconvenient, and its use has consequently been given up. The quantity of chloride of sodium contained in the purified salt from Penon blanco averages from 80 to 85 per cent., the rest being principally sulphate of soda.
In the district of Salinas the salt is also found in springs. Here English and German workmen are emploged to extract the sult, which they do by evaporation in large pans. The following are aualyses of sale from this district, and such as is sent to the various reduction works :-

|  |  | No. | No. | No. 3. | No. 4. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Chloride of |  | 90.422 | 91.141 | 86.853 | . 623 |
|  | Magnesium | 2.520 | 2.538 | . 044 | . 008 |
|  | Calcium | 1.310 | 1.574 | . 125 | 11 |
| Sulphate of | Potas | 3.556 | 3.141 | . 029 | trace |
|  | Soda |  |  | 12.949 | 3.55 |
|  | Lime |  |  |  |  |

The 100.000100 .00100 .000100 .000 The purest salt that is met with in Mexcio is sea salt, which I have found to contain, on various occasions, as much as 98.50 per cent. of chloride of sodium ; but the great cost of carriage of this salt from the coast to the interior, makes it too costly to be generally used in the reduction of silver ores.
3.-Mercury.-This metal, the consumption of which is very large. is almost entirely imported, although it exists in many localities in Mexico. I hare seen beautiful specimens of cinnabar-red sulphide of mercury-from Mazapil, and also from the Gigante near Guanaxuato, where some years ago a company was projected for the reduction of the ores; but works were never established, why Ido not know. However, considerable quantities of mercury have, from time to time, been obtained from these mines. The district of El Doctor, about 150 miles to the north of the city of Mexico, has also yielded a certain quantity of this metal.
4.-Lime.-This is not a necessary ingredient in the Patio amalgamation. It is only used when an excess of magistral has heen employed, and is then added in a caustic state, its object being to precipitate the excess of copper employed. Wood ashes are frequently added for this purpose instead of lime.
5.- Copper Precipitate.-In many of the reductior works this is used in preference to lime for counteracting the action of an excess of salphide of copper added to
torta, which it does by reducing the protochloride of copper to the state of subehloride. It is prepared by suspending s mercury bottle in a weak solution of sulphate of coppel when the copper is precipitated in the form of a very fint
powder." The use of copper precinitate in the Patio amal. powder. The use of copper precipitate in the Patio amal.
gamation was first proposed by Mr. Louckner, who also il conjunction with Mr. Henry Mackintosh, obtained a patentil Mexico for the use of Copper Amalgam in the tortas. The object of this was to save mercury; and if used skilfuly i no doubt would ; the patent, however, was evaded in man instances by using precipitated copper instead of amalgar The amalgam used by Messrs. Loukner and Mackintosil contained about 30 per cent. of copper. Finc amalgam also at times used with geod results.
treatment of tie groond ore (lana) in the patto to obtatn the silver.
The Palio is a large court yard well paved with flag carefully cemented together to prevent, as much as possibl the mercary passing between them. It is made on a sligl incline, so that superfluous water, froon rain; deć, inay rul off easily.
The ground ore from the arrastres is collected in a play called a cajete until it reaches a sufficient quantity to for a tortco or heap-which generally contains from 50 to montoues- 60 being the general size. The monton, howe er, varies in different places, as under-

| In Guanaxnato, a monton contains.... 32 quinatals.* |  |  |
| :---: | :---: | :---: |
| " Real del Moute |  |  |
| "Pachuca and Saco |  |  |
| "Zacatecas and Sombrerete |  |  |
| " Fresnillo |  |  |
| " Bolanos. |  |  |

When the necessary amount has been collected in the jete, it is removed to a space prepared for it in the body the Patio. This is an inclosure about 30 feet in diamet made by pil!ng two or three rafters on each other, and curing them in their place by large stones; the joints beir made good by horse-dung. The lama should not be mu more than a foot thick; for the thinnerit is, the quick will the operation of reduction go on. Here it is allow to remain till as much water evaporates from it as to lea rather a thin mud. This condition being arrived at, thess is added (which operation is called Ensabmorar) in the pi portion of from three to five per cent, on the weight of $t$ ore ; this, however, will deperd somewhat on the quality the salt used, and on the uature of the ores under treatme: but I now speak of salt such as that referred to in the an yses given. It is well known that those who use the salt, up to a certain point, will get out the silver in the shd est time. Some amalgamatora will never use more than per cent, salt; although they are quite aware the operati would be completed six or eight days sooner bad 5 per e been used ; but, the time gained will not compeusate for 1 extra salt used. My friend Don Juan B. Castelazo by mistake to a torta donble the quantity of salt necessa and the consequence was that the operation was conclu in ten days instead of about 25 -the usual time required ordinary ores.
When the requisite quantity of salt has been added, torta receives a repaso or treading (which will be descril further on.) It is then allowed to rest till the following $c$ when the whole of the salt ought to be in solution, thoroughly mixed with the lama.
Incorporar, (addition of Magistral and Mercury.)-] day after the salt has been added, they proceed (after bri ing the torta to a proper consistency with water, ) to add necessary quantity of magistral. If this be of an aver quality, for instance like that given in the preceeding ami ses, it is added in the proportion of from half to three-q ters per cent. on the ore, or about an arroba to each mor of ore in the torta. It is thrown as evenly as possible 1 the whole surface of the mass by means of wooden shor and when the whole has been added, the mules are admi to repassar-hread-for about an hour for the purpose mixing the whole as thoroughly as possible. When this a been completed, the morcary is then added in the propor of from $3 \frac{1}{2}$ to 4 fbs . to every mark (half pound), of
[conmanted ox bth page.]

- About 22 quintals make ouro ton.


## MINING AND SCIENTIFIC PRESS.

SAN FRANCISCO MINING NOTICES.
AESLSSMENTS LEVIED.
Issessmonts upoo Miuing Stock a have been levied as fol-fiarabaldi.-Assessment of \$1 per share, levied March futro-Asseasment of $\$ 1$ per share, levied Feb. 23, pay. March 23 .
-ilver Quartz Mill Co.-Assessment of 5 per cent. levied 1. 23, pajable Mareh 25 .

Ielvetia.-Assessment of 25 ets. per share, levied Feb payable March 10.
Wuave.- Assessment $^{\text {of }} \$ 1$ levied Feb. 22, payable Mar.
nogers.-Assessment of $\$ 5$ per share levied Feb. 4, pay
o Mar. 15.
fiam Wright.-Assesment of 50 ets. per share levied Marpayable immedintelg, deliuquen's to be suld Apr. 2.
fiapoleon (copper.) - Assessments of $\$ 3$ per share levied
r. 3. payable in 30 days.
iolden Age.-Assessment of one dollar per share levied 24. payahle March 26.
rashoe fruld \& Silver.-An assessment of 2 per cent. apital stock was levied Feb. 16 . prayable Apr. 1.
Thodes' Digmngs.-Assessment of 25 cts . per share levfeb. 26, payable Mar. 5 .
exas Co., at a Meeting held Feb. 14, levied an assessdo of one dollar per share, payable to the Secretary in ginia City.
anta Rosa Co.-February assessment of 20 cents per re wow due and payable.
ladison Co.-An assesiment, two dollars per share, was ed Feb. 17, payablo immedıately, at Office, 600 Mer . nt St.
vion Co.-An assessment of one dollar per share was fed February 16, payable ou or before March 25.
Pena Co.-An assessment of $\$ 3$ per share was levied p. 5 , one half payable March 1, balance April 15.

Cossuth Co., Devil's Gate District.-An assessment of 10 per share was levied Feb. 7.
onstitution Company levied an assessment of 25 cts. per 11, payable immediately.
2. Plusia Oro Co. Ievíed an assessment of five dollars per , Fob. 9, payable at Office of the Secretary in Virginia
a Plata Co. levied an assesment of 50 cts. per share 2nd, payable at Office of the President.
lamo Co. levied an assessment of 50 cts . per share, Feb payable on or before March 20 , at 115 Cul. Street San ucisco, or at office ia Carson City.
ucker Co. levied an assessment of 25 ets. per share, . 11, payable immediately at 608 Merchant St.
tawley Co. levied an assessment of one dollar per share, Feb. 9 , payable on or before March 12, to Superintendat the mine, or Secretary at Olfico.
late Range Co. levied an assessment of 50 cts . per share, . 4, payable, March 15.
loss G. \& S. M. Co.-An assessment of 50 cents per e was levied Jan. 27, payable at 428, Montgomery Sit., o the Superintendent at the mine.
Thite Cloud G. \& S. M. Oo. levied an assessment of tents per share, Jan. 27, payable to the Secretary, at Montgomery st.
4I Dorado G. \& S. M. Co--An assessment of One Dolper share was levied Jan. 23, payable to the Sec. or to Supt.
frudaloupe S. M. Co.-An assessment af $\$ 30$ per share
levied, payable on or before March 1st.
Thesora Mining Co.-An assessment of $\$ 11 / 2$ was levJan. 27, payable at office on or befora Feb. 27.
-olar Star G. \& S. M. Co. levied an assessment 50 cents per sharc, February 4th, payable on
hefore the 4 th of March, at the Ufice in this city or hefore the 4th of March, at the Uffice in this city or
Hios Padre G. \& S. M. Oo. levied an assessment of 3
lars per share, Jan. 31, payable in 30 days, alsu an assessht of 2 dollars per share, payable in 60 days, at office 502 ntgomery street.
Beekwith G. \& S. Mining Co.-An assessment of 25 cts per share was levied Jau. 24, payable immediately.
bonora Mining Co.-An assessment of 25 cents per share Nevied,Jan 23 , payable immediately.
prerman Mining Co.-25 eents per foot, Jan. 29, payable hin ten days.
Yhs. Caney Mining Oo,- 50 cents jer share, Jan. 21,

Sierra S. M. Co. An Assessment of ${ }^{21 \%}$ was levied Jan. 22-payable immediately, at Ulice 375 Nitission St.
Mount Javid-on C'U.-An Assessment of 50 cents per share was levied, Jan. 23, payable on or before March lat, at Office Li Muntromery Libuck.
Acirutic.-Fifly ceuts per share, plyable at No. 4 Armory
Hall, Sun Francisco, or to the Superintendent at the Mine.
Mattie G. A. S. M. C'o.-'Thirty cents per share, levied Jan. 31, payable at Office in Sun Franciseo, or at the Mine.
Hale \& Noresoss-Assessment of Ten Dollars per Share levied Jan. 31 - payable at the Office in this city, or tuifohn Skae, at the Mine, on or before Feb. 25.
Mina Prieta S. M. Co.-An Assessment of Five Dollars per Share was levied, Jan. 31, payable on or bufore March jth-at Ullice, cor. Montgomery \& Jackson Sts.

Recorder Mining Oo.-An Assessment of One Dollar per foot was levied Jan. 19, payable half on or before Feb. 18, and balance on or before March 20.
Irale \& Norcross S. M. Co. have levied an assessment of $\$ 5$ per share payable on or before Jan. 26 th.
Martin White.-Au assessment of 20 cts. a share was levied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cts . per share was levied, Jan. 14. payable at Office, cor. Sutton Āvenue aud C St., Virginia City.
Baltimore America Consolidated.-An assessment of 50 cents per share was levied, Jan. 5.
Savage.-An assessment of $\$ 35$ cents per share was levied, Jan. 7.
Hawlgy.-An assessment of $\$ 1,00$ per share was levied Feb. 9, payable March 12.
Cole S. M. Co.-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms 7 and 8, Government House, San Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15 -payable Feb. 18.
Lady Bryan.-An assessment of 70 ets. was levied, Jan. 13, payable on or before Feb. 16.

- Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jnn. 14.


## company meetings.

Chs. Oaney Co-Special meeting of stockholders will be
held on Weduesday, March 18, to consiāer the propriety of an increase of capital stock.

South Utah Co. will hold its antual meeting for election of Trustees, etc., at No. 608 Merchant St., March 20.
Nevada Co. will hold its annual meeting for electing Trustees, etc., at 608 Merchant St., March 20.
Annie Laurie Co. will hold its annual meeting for election of Trustees, etc., March 19.

## assessment sales.

Sales of. Stock for non-payment of assessments are advertised to bo sold as follows :-
Oriental Tunnel Co. will sell, on Saturday, Mar. 28.
Mars will institate proceedings against delinquents, Mar. 16th.
Planet will institute proceedings against delinquents Mar. 16 th.
Meredith.-Annual meeting of stockholders will be held Monday, Mar. 16, at 2 P. M., at 712 Montgomery St.
Texas Co. will sell delinquent shares, on the 14 of March.
Meredith Co. will sell delinquent stock, March 2n.
Coso Co, will sell delinquent stock, March 18.
Moray Co. ( $V$. City.-Suits for delinquent assessments will be commenced, March 14.
Michigan Co. (Gold Hill). will commence suits for delinquent assessments, March 16.
North Potosi Mining Co.-Sales deliquent stock will be made March 17 .
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be made March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Co., 327, Montgomery St., San Francisco, on the 25th of February.
Combination G. \& S. Mining Co.-Sale by E. S. Spear \& Co., at 433 California St., on the loth day of March next.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for asseesments, at No. 400 , Montgomery steet, on Jan. 27 .

Desert Mining Co.-Shares of telinquent stockholuers wil! be sold at auction, tor assessarents, ai No. 400, Moutgumery street, Jun. 27 .

## general notices.

Yellow Jacket.-Corporate Deed now ready for signaturo at office of H. G. Maynard, Gold Hill, N. T.
Jemy Lind (Esmeralda.)-Owners of ground in this Cat are requestes to call and sign deed of truat ut 608 Merca an St.
Mount Hope Co.-Persons elaiming stock are reqrested to present title papers for examination till March 16.
U.S. Mining Co.-All persons claiuning stock are requested to present title papers for examination at Nos. 7 \& 8 Government House.
Caution.-D. M. Tyrell marns persons against purchasing a certain 10 feet of ground in the Wellington Co., standiug in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See 'Ierritorial Enterprise.)
Ashland Co.-L. A. Gould, in the name of the Moss Co. notifies the $A$ shland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ash land Co. is forbidden to extract any valuable metals.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Tue Sweezy Co., Gold Hill, give notice that Baltic Company have wrongfuly claimed and worked their ground since July, 1860.

The Cumney Rock Co., lying next west of the Virginia Oo, claims have notified the Hazel Green, Tingley and Beach $\&$ Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.

## MINING AND SCIENTIFIC PRESS.

## TEEE ONLY MINING, MECHANICL AND SCIGNTLELO

 PAPER ON THEXS CONTINENT.THIRR YEAR: VOLUME NI--NEW SERITA I
A uew rolume of this extensively circulated paner commenced Sept. I1, A 8 . It is intended that every number bhall be repleto with information
concerning Miniag, scientife, Mechauical aud Industrial pursuits, together with several original engraviugs, of new inventions, otc., prepared expressly,
for its columns. for its columns.
This paper is devoted to the above purposes, together with the interestg
of Scieuce, Arts, Agriculture andi Commerce, and any general information of Scieuce, Arts, Agriculture andi Commerce, and any general information
thnt may be of interest to the reader : and it is the intention of the propriotor to spare no paius or expense in making it equal in interest and valuabie informution to any paper yet published.

## The Mining Interest ?

Will find it of great value, as it will contain all the news appertaining to' Mining, tho prices and sales of sining Slocks, new inventions of lachinery
addap ${ }^{+}$to that purpose, and of everything generally that may be of servics to the Miner.

## The Inventor!

Will find it an excellent medium for the purpose of bringing his invention Will find it an excellent medium for the purpose of bringing his invention
into notice, of ascertaining tho progress of invention in this and othor countrics, and also of receiving any information that may be pecessary in obtaining his patent, the proprictor haviug had great experience as a latent Agent, together with facilities at Washington thut enable him to ob
ain Patents with dispateh:

## The Mechanic and Manufacturer!

Will be greatly benefitted by its perual, as each number will contam soreral original engravings of new machines and iuveatoms, together with a large amount of reading mattor apper tiuning thereto- We are coastantly
receiving tho best scientific journals from all qumrters, from which wo
shnul continue to extract whatever may bo of benefit or interest to our shall cont
readers.
To Chemists; Architects, Millwrights and Farmers ! This journal will be invaluable. All new" discoveries in Chemistry will be given, and a large amount of information of grent servico to Architects and
Millwrights will bo fouvd in our columns. The Farmers and Plunters will not bo neglected, engravings will be given of agricultural implements, and
the farming jnterest generally will bo amply discussed.

## Terms.

To mall subscribers :-Four Dollars per annum.
Club Rates.
Five Copies for Six Months 88 ,
Ten Copies for Six Months, $\$ 16$.
Fifteen Copies for Twelve Months, $\$ 44$.
Twenty Copies for Twolve Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$ Names cau bo sent iu at different times apd from different Post-offices, Specimen copies will be sent gratis to any part of the country.

## EWER \& SMITH, Priblishers,

Room 27, (formerly) U. S. Court Building, Corner of Washington and Be
C. THOMAs, Plaining Mill, California stroet, facing the Mission $R$ R. R
m 1

TURNER, MARSE \& USGOON, Successors to C. O. Turner \& Co., importers
DR. J. B. BELGRE-Dentist, 617 Clay strcet. All operations on the tectif

MRS. HALL'S VOLCANIC SMELTING FURNACE.
We would call the attention uf our readers to the subjoined "card" in reference to the above invention. The well known metallurgical and scientific attainments of the gentleman whose name is thereto affixed, must attach much interest and importance to the document.

By reference to an advertisement of the proprietress in another column, it will be seen that she is desirous of making arrangements with some person of means, to erect a trial furnace, capable of smelting one or more tons of ore. We trust that some one of the many capitalists, to - whom California has been generous, and who take an interest in the further development of her mineral resources, will come for ward and furnish Mrs. H. with the neans to give her invention a thorough, practical trial. Its success would lead to the most important $\mathbf{r}$ sults; while a failure, at the worst, would only involve the liss of a few hundred dollars in an attempt to solve a most interesting problem in practical metallurgy.

## San Francisco, Marce 14, 1863.

MADAME:-In accordance with your polite request to give you my unbiased opinion concerning your ingenious device of a fuel, metal, and labor-saving smelting furnace; I have to particularize matters in detail in order to be uuderstood, viz.:

The quadrangular dimen sion which you give your furnace outside, and the oval cavity for receiving the ore mixed up with crade lime and coals, is a contrivance well calculated to resist the inner pressure of the heat as well as to bring a considerable amount of ore into a very limited compass, to be acted upon by the intense heat thus concentrated and kept in this state up to the end of the process with a comparatively small consumption of fuel.

The moderate amount of steam, introduced by turns and the means of steam-pipes $g$ and $p$, is decomposed into its constitutive parts, viz.: oxygen and hydrogen, performing this way in part the functions of a hydro-oxygen blow-pipe ; the oxygen by its combining with the glewing coals augments their combustibility in a more rapid manner, and increases thus the intensity of the heat, which is still more augmented by the deflagrating hydrogen thus parted from the oxygen in the decomposed steam. Besides this change other decompositious and matual associations also take place in this mysterious furnace, viz : ores which are in an oxydated state, are thus forced, to give up their oxygen on the coals, which have a greater affinity for the same than any metal. By carbonates the intense heat volatizes the carbonic acid, and by sulphates the lime depriving them of their sulphur, and ormbining with it as gypsum, and thus the reduction of the ore into a metalic state being complete, the fire can now freely act upon the metalic particles of the ore, which thus liquified, sink by their specific gravity to the bottom of the above mentioned cavity of the furnace and are collected in pare slugs below the apertare $x$.

Another attribute of great utility in your invention is the Condenser C , with the sieve $\mathbf{0}$, which prevents the waste of any by the heat votalized mineral or metal to escape through the chimney, and is collected in said condenser.
This proces of reducing ores, is also a great deal accelerated by the abubdantly administered air, forced from all sides into the furnace, through the judicionsly dlstributed flues and draught holes, d, d, d, by which a great amount of oxygen, that indispensible requisite for the maintainance of the fire, is supplied with said atmospheric air, of which it forms a constituent part. If by the construction of your Smelting Furnace, on a large scale, said air flues could be put in such a position, as to conduct heated, instead of cold air into the furnace, the process would be considerably shortened and a still greater amount of fuel saved.

Having been a witness of your proceedure from its begin. ning to its ond, and seen the results of your labor, I am confident that your most clever device will revolutionise the old system of smelting ores, altogether.

Very Respectfuly,
Your Obed't Servant,
CHARLES HARASZTHY.
Mts. Eliza Jane Hall.
Treasore Regetprs.-The amount of treasure receipts, from the interior during the ten days interim between the sailing of the two last steamers was, within a fraction o $\$ 1,500,000$; an unusually large amount for the season.

VALUABLE DISCOVERIES IN THE RUSS DISTRICT.
Mr. R.S. Whinham of this city, who has recently returned from the Russ district, has shown us a letter raceived from that region a few days since, which gives an extended report of the success of a prospecting party which started out from the camp of the Ida company on Owen's river, Tulare county, on the eastern slope of the Sierra Nevada, and about 100 miles south of Esmeralda. The party consisted of six. They left camp on the 26 th of January, following the river in a north-easterly diriction about 15 miles where they commenced prospecting. The result of which was the discovery and location of the following leads ,-
The Jefferson, from 8 to 10 feet thich-argentiferous ga lena, galena in great abundance, rich in silver by assay.
Columbus-a gold bearing lead, in a granitic formation, from 20 to 30 inches thick-the lead rich, very friable, much decomposed, and abounds with fine gold in every part of it, as far as opened.
Chrysopolis, also gold-bearing, a well defined lead crop ping out for huodreds of feet in extent, and showing gold wherever examined. The lead is about three feet thick
Oro Fino-gold much resembling the Chry opolis, cropping out for many handred feet, and showing fine gold abundantly on the surface.
These are all parallel ledges within a mile and a half of each other, and all convenient to the river and most eligibly located for working. The company have taken up a mill site and contemplate early efforts toward developing these discoveries. Timber and water plenty. We note these discoveries, as indicative of the extent of the still unexplored region of country east of the Sierras. The prospectors assert that there are a plenty more veins still left equally and perhaps more valuable than those already located.
The developments daily being made in every part of the State and on both sides of the mountains, are bat cumulative evidence of the immensity of the yet uadeveloped minaral wealth of the Pacific Coast, and may s-rve to give us some faint idea of the future wealth and industrial proporrions which the golden State of California is destined to asssume at no distant day.

Local Mining Excitement.-It is said that some specimens, of silver ore have been picked up on California street, between Powell and Mason, which were taken out of the ledge of rock, now being dug away at that point in grading the street. Our "local" visited the locality but failed to discover any "ledge" or "indications" of silver. Those present stated that the "specimens" had all been taken away. According to the Morning Call, a quantitative assay made by Mr. Q L. Hagberg, No. 420 Montgonery street, for J. R. Sprout, one of the claimants, shows 1.29-100 ounces of silver and 1.21-100 ounces of gold to the ton, the total value of which is $\$ 38$ 32. This yield would not pay for working, but the company think if the outcroppings will pay even that much, better prospects may be developed by sinking a shaft, which will be done at once.
Somebody evidently has faith in the occurrence of silver ore at that locality, as a regular Stock Company has been formed, and the certificate of incorporation filled with the County Clerk. The ground claimed by the Company con sists of the consolidated claims of a number of parties. The locality, beyond the limits of the street which belongs to the city, is all owned by private individuals, whose title will have to be purchased before any operations beyond "staking off" can be commenced.
Quick Wort.-The Sonora, on her last trip to this city remained in port but 24 hours, during which time she discharged her large inward cargo, with passengers, baggage etc., and took on board 400 tons of coal for the down trip, and the ships stores necessary for the voyage, together with a full list of passengers. This is a degree of dispatch which we think must be without a parallel, and speaks well for the energy and system with which everything connected with this company is managed.

T're Moses Taylor sailed promptly to her advertised hour, on the 11th instant, with an unusually large list of passengers. This boat has been put in the most perfect order throughout, and her passengers will doubtles have a most pleasant and speedy trip to the Isthmus, on their journey homeward.

## COPPER SMETITING WORES.

A company of San Francisco capitalists, has recently been incorporated with the view of erecting works for the reduction of copper ores on this coast. The company has purchased a fract of land about two miles above the junction of the Sacramento and San Joaquin rivers, upon the South bank of the latter. Among the names of the corporators we notice some of our wealthiest and most enterprising citizens. The point selected for the works of the company is a most judicious one. It is within five miles of the Mount Diablo coal mines, and directly on the route which all the ores of the region drained by tbe Sacramento and San Joaquin rivers must take in reaching a market.

The company will probably put up but a siogle furnace to commence, which will bequite sufficient to thoroughly test the practicability of the project. The works will be erected and placed in operation under the general supervision of Mr. Price, a gentleman intimately acquainted with all the details of this intricate branch of busioess. Mr. Price will bring to the aid of the company the accumulated ex perience, which for many jears has been in process of aggregation at Swansea, England, where this business has been reduced to as perfect a system and as closely economised as is practicable, at the present period of metallurgical knowledge.
Every element of success attainable on the Pacific Coast has been secured with the riew to make the enterprise remanerative, if possible. The public spirited gentlemen who are advancing the capital for this operation are governed more by a desire to test the practicability of reduction works on this coast, than by a mere desire to realise a large percentage on their investment. Should success attend the effort, it will add a renewed impetus to our copper mining interest, and give value to a large proportion of ores now worthless in this market. The Company, at present, will limit their operations to a reduction of the ores to "regulus" and will not undertake any refining process antil the preliminary one has resulted in success.

The shipment of treasure per Sonora was as follows:To England.
$\$ 380,16464$
237,72804
To New York 5,00000

Previously this year.
Total since Janutry 1st, 1863. \$ 622,89268 Corresponding period of 1862 . $811,321,66227$
$7,376,17910$

Excess this year. $\$ 3,945,48317$

Mining Intelifigence.-Several of our eity cotemporaries speaking of the Copper Smelting Works about to be erected near the junction of the Sacramento and San Joaquin rivere remarks that their proximity to the Mount Diablo Coal Mines will give "the new works a great advantage over those at Swansea and other places where the coal has to be procured at a great expense from abrcad."
Our contemporary, we apprehend, is not thoroughly posted. Instead of an anvantage to be derived from the near proximity of "the New Works" to coal, their distanee from that important material, and the great comparative cost of providing the same, will be found the chief obstacle to be encountered in making these works pay. The smelt ing works at Swansea, are located directly at the mouth the coal mines, and nearly all the coal used in the furnaces are the screenings which are unmeachantable, and would no pay for hauling to a market. Notwithstanding the disad vantages under which these works will go into operation, nevertheless trust and believe, with our cutemporary th "this enterprise which is expected to be in successful opere tion within the next two months, will prove of great benefi to the copper mining interests of California.
"Tee Stock Exchange Board."-The new Stock E change Association held their first meeting on Monday las at their rooms in Montgomery Block, and the following off cers were elected: President, A. P. Sandford; Vice Presi dent, M. Livingston ; Secretary, James H. Gager; Treas urer, T. D. Mattherson. There were 40 members preseni
There is a scheme to construct another tunnel unde the Alps, the point being settled at the Simplon. The tc tal length of the proposed tannel will be about 4506 metres

## MINING ANDSCIENTIFICPRESS

GENERAL MLNING STOCK REPORT,

## REPORT OF BALES

At tho San Frunclico Mining Stock Board, yor tho weok eadtag hlarch 14, 1883.

stock remarks.

## SAN FRANOISCO, March 16th, 1868.

The Mining Market for the past week has boon decidedly dull. Transae tions bave been cumparatively light, first and second class stocks have gen erally dectined. Stocks of lower grade have beld firm to last week's qnotations, and some have advanced. Mauy buyers have concinded, before investigg further, to virit the mines and examine progress. Some have al ready gone, others are waiting for improved roads and more settled woather. Capital, for iegitimate opeartions, is as abundant as ever, but there is cauthan than heretofore, and to rely more upon personal knowledge and inspectiou of the mincs. Wo subjoin the transactions of the week.

## TRANSACTIONS IN SHARES, FOR THE WEEK

## NEVADA TERHTORY.

Ophir-60 at $\$ 2900$, b. o. 60 days
Gould \& Curry-8 at \$2,375.
Chollar-12 at $660,-40$ at 650
Sierra Nevada-20 at $\$ 871 / 2$
Savage-5 at 1300, b 30 ds .
Burning Moscow-40 at \$215-20 at 205-50 at 15526 at $1521 / 2-20$ at $170-52$ at 150

North Potosi-29 at $\$ 36$
Rogers- $521 / 2$ at $\$ 12-121 / 2$ at 13
Meredith-20 at \$40-134 at 35
Sacramento-6 et 60
Savage-5 at \$1175-10 at 1250
Iowa-5 at \$120-10 at 121
Norton-10 at \$29-35 at 28-15 at 27-15 at $261 / 2$
Burnside-20 at $\$ 51-10$ at $45-30$ at $50-22$ at $52-5$ $521 / 2-10$ at $53-\mathrm{I} 0$ at 49 - 22 at 48-10 at 46-10 at 47
Adriatic-10 at $17-10$ at $16-211 / 2$ at $151 / 2-10$ at $15-$
20 at $83 / 4-20$ at $8 \frac{1}{2}-60$ at $91 / 2-10$ at $95 / 8-57$ at $9-10$
at $10-170$ at 9
Madison-100 at 22-3 at 221/2
Lacerve-30 at 101/2
Nevada-10 at $\$ 100-30$ at $105-150$ at 105 b. 0.60 ds.
Cedar Hill T'unuel Co.-84 at $\$ 8-40$ at $71 / 2$ 30 at $7-25$
at 6-100 at 8 b .30 ds .
Mount Davidson-10 at \$7-25 at 8
Oriental-130 at \$6-100 at 61/2
Lady Bryan-273 at \$12-125 at 121/2-40 at 13
Rbodes Diggings-10 at \$521
Governor Nye-245 at $\$ 13$ - 70 at $131 / 2$
Cole 15 at $\$ 15$
Hattie- 10 at $\$ 10-35$ at 121/2
Hazel Green-570 at $\$ 7-133^{2}$ at $63 / 4-80$ at $6-50$ at $51 / 4$
10 at $51 / 2$ Laurie-20 at $\$ 21 / 2$
Annie Laurie-20 at $\$ 21 / 20$ at $71 / 2-50$ at $8-70$ at $71 / 4$
Union, Go'd Hill-5 at $\$ 25$
Best \& Belcher-10 at $\$ 225-10$ at 220

## ENMERALDA STOCKS, ETC.

Wide West-10 at $\$ 390$
Antelope-5 at $\$ 375$
Esmeralda- 10 ut $\$ 50-10$ at $521 / 2$
Real Del Monts-20 at $\$ 821 / 2-5$ at 90
Utah-33at $\$ 1024 / 23-10$ at 100
Bamboo-65 at $\$ 50$
Bodie, No. 2-10 at \$0
Bodie, No. 2-10
Pond-5 at $\$ 110$
Willow
Willow Springs- 20 at $\$ 21-10$ at $29-100$ at 32 b. 60 ds. -10 at 28
Josephine-17 at $834-50$ at $31-10$ at $32-9$ at $33-10$
t $33!-113$ at $36-25$ at $371 / 2$
Bullion (Russ District) -60 at 40 cts,- -470 at 20 cts.
Dios Padre-2 at $\$ 66$
COPPER STOCKS.
Napoleon-45 at \$25-40 at 24

## VLRGINIA CITY STOCK LIST.

[Corrected Weekly for the Mining and Scientific Press.]

| Bid. | P1d |
| :---: | :---: |
| \% 9 |  |
| 19 | Irv |
|  |  |
| Atchison . ................ 150 | Laboriag................... 11 |
| A mericaa |  |
| Belviders ................ 10 | Mitton ................... 80 |
| Baltec................... 20 | Mary Ana............... ${ }^{25}$ |
| Birdsull .................. 22 21/2 | Monterey Co. (Spiiog Val) |
| Bullion (cousolidated) ... ${ }^{40} 50$ | Monarch |
| Burnside $\ldots$............. 450 | Mudison |
| Buroing Moscow | Mohegan |
| Beach \& Paxton ......... 1188200 | North ${ }^{\text {A }}$ |
| Balcimore Amerlcan...... 25 | Nevada. |
| Buld Eagle............... ${ }^{2}$ | North Oph |
| Bloomingdale............. ${ }^{6}$ | Oriental. |
| Blae Ledige, (Revese Diver) $25{ }^{20}$ | Osceola..................... 10 |
| Buchuwan ............... 76 100 | Pioneer ............... 10 |
| Cedur Hill Tuunel........ ${ }^{5}$ | Pride of Washog ......... 18 |
| Culedonia ............... ${ }^{10}$ | Poytoun ................ 40 |
| Comet (Simpson's Park).. 60 | Phitndelph |
| Cole ................... 20 | Recorder. |
| Cnmm | Santa Rit |
| Consolidated | Santa Fe |
| nurgan. | Summit |
| Day ton Company ........ ${ }^{10}$ | Sweozy |
| Decatur................ ${ }^{5}$ | St. Georgo |
|  | Sinalor..................... ${ }^{9} 10$ |
| Desert................... ${ }^{5}$ | Sierra Nevada ........... $70{ }^{70} 9$ |
| Empir | Sierra.. |
| ELDiradn................ ${ }^{60}$ | Sacramento ............. $70{ }^{77}$ |
|  | Sigel. |
| Evo'pg Star, Argent'e Dis't 30 | ${ }^{\text {Texas }}$ U. ${ }^{\text {a }}$ (inio............. $8^{8}$ |
| Empire Co. (spring Val.).. 26 | Union, Gold Hall ........ 40 |
| Governor Nye ............ ${ }^{7}$ | U. S. Tunne |
| Goldeu G | Unclo Sam |
| Grass Valley............. ${ }^{11}$ |  |
| Golden Fra............. 10 | Virgin |
| Gondea Eighie ........ | Washiogt |
|  | York |
|  | Yellow Jacket . . . . . . . . . 400400 |
|  | ${ }_{20 u}{ }^{2}$ |

There is a large quantity of Humboldt stock in the Virgioiu market, Iow rates; but it is dealt in spariogly, and generally at private rates. Reese River seems to be altracting attention at the present timo proference to Humboldt.

## WASHOE STOCK REMARES.

[Comphed from time Daily Terrbtoraal Entereprise.]
Monday Evenifg, Mar. 2nd.
The election to-day has interfered somewhat with the stock trade, and fome specimens of the recently discovered quartz in that section. One ledge, upon which a number of locations bave been made, crops out a three or four points during a distance of as many miles, and is apparently forty or fifty feet in thickness. The quartz presents nothing to the eye but antimony, but assay shows silver and gold as well. The locality is some forty or forty-Ave miles north of Virginta. When the informant of the En terprise left Peavine, about iwo hundred prospectors had arrived; and
something of an excitement was brewing. The people of Dayton are also something of an excitemenly was rewing. The people or Dayton are also parallol with each other, about six males from that place. The cropping are ovor one hundred feet in height, and assays from them aave showa the neighborhood of $\$ 100$ in gold and siver to The tov. Sbere is quite stampedo in that direction, we are informed. There has been a light in-
quiry to-day for Rirdsall, at $\$ 20$; for Union, of Gold Hill, at $\$ 25$; for Beach and Paxton, at $\$ 65$ @ 70; for Oriontal, at $\$ 8$ @ 9 ; for Fairview, at $15 @ 17$ for Zouave at \$17 © 18.

## Tuksday Evening, March 3d

Transactions to-day have not beon numerons or very important. The
Recse River mines have been a prominent topic, owing to a large yiela Reese River mines have been a prominent topie, owing to a large yiela
from the Bive Ridge, in that section. Fleven huarlred pounds of ore profrom the Blue Ridge, in that section. Fleven hutrlred pounds of ore pro
duced the astonishing result of $\$ 1,136$ ju silver. The bar of bullion is on exhbition at Light's Exchange, as well as some specimons of the ore Some fifty feet of that ledge were offered at $\$ 25$ por foot, $\$ 20$ was bic
There bas been some action in Union, Gold Hill, to day. Sixty feet sold a $\$ 25,15$ feet at $\$ 2750$, and 12 fect at $\$ 30$. Zouave has been in request, to fill orders from below. Forty feet sold at $\$ 18$, and 36 feet at $\$ 20$. Birdsal has been dealt in at $\$ 20$ This stock, owing to the near approach or the shaf now being sunk to the ledge, is getting jato request. Bullion can be had quiet, can be sold at $\$ 75$ @ 80, with little in markot. Burbside is inactive at a shade below being exhibited from che Irving. Fairview can bo \&old at \$16 © $\$ 17$ (a) 18 , but noue changing hands. Beach \& Paxton is athl upward, but as th cl im is small, it is obtained with difliculty. An immonse body of ore o
moderato vulue is exbibited. We quote itat $\$ 75$ (@) 80 , although there i none in market at these figures. Texas and Oriental are firm at $\$ 8$ (c) 10

## Transactions have been limited, with no especial demand for anything

Gold Hill shares of all kinds aro meating with favor. Doion io in large demandat $\$ 25$ @ 30. Eureka, recently locorporated, is saleable at $\$ 20$. Buchadan is ratiug at $\$ 76$ (3) 100. Bullion remains at our quotations or yeaterday, with nowe ofluring. Fairview ranges from $\$ 15$ (6) 17. Yolo can bo had for $\$ 10$ © 12 . Sinaloa may bo quoted at $\$ 0$ (1) 10. Zouave has been lighty figquired for at $\$ 18$ (a) 20. Sixteen feot sold at \$18. Beach \& Paxtan can be soldat $\$ 100$. Holders aro aekiug $\$ 500$. With so wide a gulr between buyers and sellers, wo cannot hope lo report maby transactions fa thia stock withle the next thirty days. Birdsalf is saleable at $\$ 20$, in amall lota Twenty feet sold at these gigures. Oriontal in markotable at $\$ 7$ (1) 8, Sixat $\$ 8$.

The atock trade has beon remart Thursday Evzange, March 5th.
ben confin to invest dled bastily and without discretion in some instances ; but a return of the freozy of '60 is not anticipated. The impalience of enpital, however, seems to increase with tho supply, and during the coming Summer mere or less imprudence in inveating may reasonably be looked for. There hes been a light demand for Zouave at $\$ 10$ (3) 20 , and somo 40 shares have beea rrausferred at these agures. This stock in finding its way into the hands of heavy operators at the Ray. The Pioneer, in this distriet, has been deast in
to nome exteut to day, and a number of reet changed hunds at $\$ 0$ @ 10 . to nome exteut to-day, and a number of reet changed hands at $80 @ 10$.
We know nothing of its merits. The ledge claimed is immediately west of tho Virgiala. Birdsull has been marketable to-day at 20. Twonty-five foet changed hands. There are buyers of Unive, Gold Hill, at $\$ 2750$ (a) $\$ 30$. Twenty-five feet were sold at the former figures. Adriatic fand Harribon, Flowery District, are in request at low rates ; $\$ 3$ is offered for the first and $\$ 3$ (1) 4 for the latter

Friday Evenina, March bth.
The business of the week presents a handsome aggregate of sales, and a general advance of stocka is observable. Moscow has been one of the themes of the day. Yesterday, $\$ 200$ and $\$ 225$ were paid, and the impression prevailed that the stock would advance to $\$ 500$ before the close of the week. This expectation bas not been realized. We have beard of no oflor above $\$ 200$ to-day. The North Ophir prodigy has ougrossed some attention. The assays are certanly large, and well calculated to excite; but the extort of the pay streak is a question uizon which there is a voy deided cos aict of opinion. Some who have viaited the claim venture to express an
emphaticalyy unfavorable opinion of ita merits. It has been offored to-any at $\$ 20$ per foot, whithout buyers. The Yellow Jacket has advanced to $\$ 350$ @ 3500 -attributable almost entirely to favorable developments. Were it
free of dlapute-the Union also claiming tho ledge-it would reach $\$ 1000$ per font in loss than 30 days. Bullion, Burnside and Milton are inactive, and we have ne transtctions in either to report. Birdsall is selling in small lots at $\$ 20$ @ 2250 , and 40 feet changed handa to-day at these Ggures. Texas is salenble at $\$ 7$ @ 8 . 10 feet sold at $\$ 750$. Beach and Paxton can be sold readily. 10 feet found a purchasor to-day at $\$ 118$ per share. Grass Valley is in demand at $\$ 8$ (a) 10, and $\$ 12$, It is reported, has been paid. Thia old title is being brought up by the owneas of ground which it is supposed to cover. Flowery stocks are ou the advavec. Adriatic is saleable at $\$ 15$ (a3) 20, and Harrison can be sold at twice its former rates,

Our Seturday's report has not come to hand.
The only chauges we notice in Monday's report, of previous quotations, is an adrance of El Dorado from $\$ 50$ to $\$ 60$, and Union, Gold Hill, from $\$ 35$ to $\$ 40$. Yellow Jacket is still fmproving-five feet sold on Monday for $\$ 400$ per foot.


Of the sales during the weok, the following only, were submitted for pub
150 feet Bodie Bluff Consolidation, on private terms.
5 feet Bodie Silver Hill Consolidation, terms private.
25 shares Gon. Hooker Consolidation for $\$ 260$

## ORITYUARY.

We regret to announce the denth of Jambs $P$. Cmenerx, son of Riolard Caenery Esq. of this city, who died, on the 5 th inst., at the realdence of ar Grandfather, Dr. Peck, at Northampton, Mass, aged 19., of a fever contracted in tho Chickahominy swamps.
We knew him well. Fo was always generous, brave and kind. A great favorite among his fellows, no party or game of ball was complete withfavorite am
out Jmary.

## [CONTINTER FROM 2nd PAGR.]

contained in the torta. This mercury is introducedina very fine shower, by being pressed through a linen sheet so as to divide the particles as much as possible. The torta, when the mercury is added, should not be too wet, otherwise the mercury would be apt to collect into large globules again -neither should it be too dry, as the mercury in that case would become too much divided, and thus cause "a larger loss than necessary in washing*-it should be of such a consisteocy, that the animals can, in treading, go through it with comparative ease, and yet leave the marks of their feet when removed. Immediately after the addition of the mercary the whole is again trodien for about four or five hours for the purpose of incorporating as perfectly as possible the whole mass.

When pure crystallized sulphate of copper is employed, instead of common calcined pyrites, there is added from 10 to 14 Ibs . for each monton of ore in the torta.

When the magistral and mercury have been added, and a repaso given, the torta may be sald to be in working order; and it only remalns for the azoguero or amalgamator to watch attentively its daily progress by repeatedly taking out tentaduras, samples:-the colour and general appearance of the mercury being the only guide to the whole operation.

A short time after the incorparo, the azoguero takes ont a tentadura from the torta; washes away the earthy particles, and carefully examines what remains, which is composed of polvillos-metallic sulphides-and mercury. If the latter be rubbed with the thumb, or pressed through a piece of leather, but very little amalgam will remain. The colour of the mercury, in this case, is only taken notice of ; and if it has altered a little from its natural colour, with a slight tinge of yellow, it is sign that sufficient magistral has not been added; or if the mercury be divided into small particles it is a similar sign. If it partakes of a lead or deep grey colour, it is evident that an excess of magistral has been added, and the torta, in such a state, is said to be ca-liente-hot-which is very prejudicial, and causes an unnecessary loss of mercury. . For this reason it is always betler to err in adding too little than too much magistral. If the right quantity required be put upon it at first, it is a great object gained, as the torta at once falls into good working order and goes on, barring unforeseen accidents, with but little trouble to the end of the operation. When a torta is in good workiug order, the surface of the mercury is of a distinct light grey colour.
[TO be contriekd.]

The Ruling Passion.-The local of the Amador Ledger, who has become very much excited with regard to the recent wonderful copper developments in that neighborhood, undertook to describe one of the beautiful mornings of the past week, and let himself off as follows:-
"On Thursday morning last the sun 'cropped out' beautifully, giving 'good indications' of a fine day", etc.

## A STOCK BOARD IN VIRGINIA CITY.

The brokers of Virginia City have organized a Stock Board, adopted a constitution and code of by-laws and elected the following offcers for the first term :-

$$
\begin{aligned}
& \text { A. C. Wightman, . . . . . . . . . . . President, } \\
& \text { Jackson Mokinstrx, ...... Vice } \\
& \text { John McCarthy, . . . . . . . . . Secretary, } \\
& \text { W. R. Scribner, . . . . . . . . Treasurer. }
\end{aligned}
$$

Their first meeting for business was held on Monday last Regular daily meetings will be held and publication of the doings thereof made through the newspapers.

Anothet Ophir.-The denizens of Virginia City have recently been terribly excited about a wonderfully rich discovery in the "North Oylir," (Argentine District) a lead iocated and being worked on the Ophir grade, about a mile and a half from the Summit House. It is described as being 50 feet wide and of great richness. It has been opened about 30 feet below the surface-mostly gold, some silver. The Enterprise says that one and a-half feet of Savage have been given for ten feet of the new Ophia-equal to about $\$ 20$ per foot; 1600 feet in the claim.

Mining Directory.- We have in course of preparation a "Minging Directory," whereir. will appear, in tabular form, all the Incorporated Mining Companies, which Thave offices in this city, the names of their Secretaries, place of office, location of mine, etc., etc. This table will be corrected month ly, and will prove of great convenience to the public: We had intended to lave had it ready for this issue, but it is unavoidably postponed until next week.

## Dr, Van Ziandt,

## Consulting Physician and Surgeon

 OFFICE:Corner of Washington and Sansome Streets.
The Great Success of this Century, is an Aid to Practi-
cal Medicine. cal Medicine.

The Mystetions Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases
THAT THIS PRiNCIPLE, succesfully applied to liseased states

 tality kiowris ns nerrous in
obviating diseased action.

Too Much Camnot Be Said
In its praise ; for it is highly probable that in health there is an exact equi-


 nud iu order that the tissues of the
agents wo must first restore and

Awaken the Magnetic Lite Within Us,
The spinal and sympathetic nerve systems. Boheryng as I do most frmly iu this great mangectic or electrical intensity of the carth, with its inflnence
upon our bodies in lenth nud disase, I am led to tako advantage of the upon our bodies in henith nud disense, I am io to tako alyantage of -the
press, through which to awaben atlention to the sulject, that good many comie to all. No Compromese with Disease.
Give the body strength, and nature will reliere herscif. Purify the life
 tobs actre by El.ECTRICAL exitition, and at onde the aged the minied, hie nervous, the dispitita,
revive under its beniga mifuenco.

To the Ladies of California.


> All the World Over
wherever disease exists, whether special to the soil and elimato or come
mon to all regious-enidemic ur cassail, acute or chronic coltanin
 um, especially in California, as it is to give food to the starring. This state-
ment is based upou a series of facts extendiog through many years, and
eerefed by hundreds of paticnts iso so inat no principlo of science, no rule or

 disease, the result of scrofula or caohectic habit of body,
None Need Despair of Relicfic
If you have ulcers which will not heal-pains that cannot be remoredmelancluly whlch you cannot shake ofi-lose of powrer which your canout re-
gaiu-depression of spirits which weull you down-wakefalness that knows

 adapted to the requirements of climate and const tution, will asssure fou
radical remoral of all bodily and mental inf rmities, within the scope radience and man to removo.
scind
It must not be forgotten by the eeye and ear sufferers that Dr. Van Zand has made these anticlins haspecillomady, and that he is the oranch of practice. Very
 act, floating speeks before vision, twitching of the cyelidsc, squinting, catar deatpess roaring and buzzing noises in the ears, giddoivesse, etc. All operations suc
cessfully done on those del icate organs or sebse. Office-Coruer of Washington aud Sansome

Paluer, HaNscons \& Co. Golden State Fonndry, and Machine Work
(Formerly Snter Iron Works.) First street near Market.

A. S. ROsENBADM \& CO.-Importers of pure Havana Cigars, Tobacca

## 

 C. W. M. SMITH and W. B. EWER, - ; ....-Proprietora.

## Engraviags, Fleetrotypes, ete.

We execute at this Omce Eagravings and Illustrations on wood, stone cription-Buildiogs, sketches of Towd Elictropynar, Deslgns of every de cription-Buildings, sketches of Towas, Machinery, Stamplies, Sealn fo
Plaiu or Colered Prmang. Job Work excented with dispatch at low rates. PATRONs will remember that when we execute engraviags we will tuser them free of charge in the Mivivennd Scrextinc Press, thus giving the ad vantagr of a Wiro Circulation thronghout the Pacific Coast in the beat Adortising Medium to be found mithe country

## To Printers.

An Interest in one of the most dourrshing and best paying Newspa per Omces in the mountains is offored for sale on casy terms. A rare op portunity is hereby preseated toany priater desirous of establiehing him self in a good business in oue of the liealtbiest, most thriving and delight al mountain towns in the state. For further information enquire at this office.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scienttife Press? If so, you are an annual loser of many times the price of \& year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information; important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or oue that will convey to them so full an account of the real industry of the country as the Mining and Scientritc Press. We invite all to send us their names and four dollars, or twoo dollars for six months, and become patrous of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to then for examination, and with the lope that it may so for meet with their approval as to wurrant their subscribing for it at once. It is not our usual custom to receive a subseriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant reader of it for even that short period.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign conatries. Four patents-American, English,French and Belgian-will secure an inventor exclusipe monoply to his discovery among one haudred millions of the most intelligent people is the world.
The facilities of busiaess and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained tbrough the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Government, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, etc., with promptuess and dispatch.
Models are not required in any Furopean country, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to tak out foreign patents, engravings should not be published until the foreign applications have been made.
Caution.- It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrast their cases to the care of a competent, reliable agent at bome.
While it is true of Most European conntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stadd the test of a searching legal examination; as it is a common practice when a patentee fiuds a purchaser for his invention, for the latter to cause such examination to be made before be will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of
palent agents or patent brokers, as they cannot ordinarily be patent agents or patent brokers, as
trasted with valuable inventions.

## MININGANDSCIENTIFIC PRESS

## LOWER CALIFORNLA

Colonization and Mining Company,
 125,000 Acres of ricir agriceltural land, and a valuabl, sllver mine,
 shout thene tro in this

## SPLENDID ENTERPRISE.

It proposes to send a veseel about the first of March
No THE SHOULD BE LOST bY COLONITS.
Farmers Mincrs mat Mechanton,
With families aro particularly invited by the authori thes ur the Territory. The lamitselueted, in poitht of fer tility of wil, is uot excelled on the Contiment. The cllmate is unsurpassed th the world. Thu richest Sllyer Miupa known to exist in the Territory are la the inmodi ate rienlly and bordoring on tho agricultural lauds of tho Colous.
N. B. Bear in mifod that a blaro costa, at present, on y \$100, which entitles tho holder to free tranaporta Uou for welf, family, amp articles of peranal use and an equal whare In the land, the Comp.ung's silver Stine, ete. the whote enturprise, beng for the mutual bonefit of asembers ouly.
Full fuformation can be had, and Mincral and Cotton Specmans sixu, by applyiag at the oilleo of tho Compa uy, North-west corner ol Clay and Frout stroot.
boamd of trustees.
A. G. RAMDALL, Presilont.
 Trantees,-Ti, F. Invprasn, Isaar I.shor, M. D. Matz Cinumitino on Sirveey, -R. Richavos, Special agent Cajt. R. C. Axdraws, Surveyor

LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Having bees connected with the public works of the State of Ohio for 20 years, and the public surveys of tho State of California for 7 years.

ALSO
state locating agent.
And as such having the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acres
Tarms-Twenty per eent in cash and the balance on a crellit of suveral yesrs.
orFice: ner of Montgomery and California streets.

## HAYNES \& LAWTON,

mporters and nealers in
CROCKERY, GLASS WABE,
FRENCH CHINA,
Coal Oil Lamps; Table Cutlery, CLOCKS ,
Silver Plated and Britania Ware, ETC, ETC., ETc. NO. 516 SANSOME STREET, [CORNER OF MERCIIANT,]
noze Sas Frangece.

Attention! Attention!
$\mathrm{A}^{\mathrm{m}}$
 named oitce.

## A. ROMAN \& Co.,

Book Establishment, 417 and 419 Montgomery strect, SAN FRANCISCO.

Orders reapectrully solicited and promptly attended to. ATratise on Metallurgy, Comprising Minng and Gen
ural aud lurticular Mntalurgical Operations, Litc.
orat aud Purticular Mutaliurgical operations, wic.
A. Manall of Munhlurgy, or A Practical Treatise on the

Records of Mining and Motalhurgy, or Facts and Mem-
oranda for the Ueg of the Mine Agent nud Smolter.
By Jancs $\begin{aligned} & \text { Yhtillipe and Joln Darlington. } \\ & \text { Manual of Metallurgy, more partienlarly of the precious }\end{aligned}$
anual of Metallurgy, more partienlarly of the precious
metals: but includ ing such outhers as are cmploged
it destat practice.
Phen on the Chemistry and Ming of Copper.
Piggot on the chemistry and Mining of Copper.
Practical Mineral Assaying and Miuing. Overman.
Golu Jining and Assiying by Phips,
Mincrs' Companion and Guide, compiled by Silversmith.
Mincrs' Companion and Guide, compiled by Silversmith.
Aseayers' Guide; or Practical directious to Assayers, Mi Aseayers' Guide; or Practical directions to Assayers,
ners and Smelterg. ners and smelters.
Practical Assnying, by Micbell,
IIver Ores and Silver Mines, by
Ure's Dictionary of Arts, Manutactures and Mines. Weisbach's 3fechanics of M.chivery and Engineering Nevilic's Hydruulic Formula Tables.
Eresenius' Chomical Analysis.
Kresenius' Chomical Analysis.
Together with many other works in this
and similarlines
n22. Books imported to order on short notice. Tha A. ROMLAN \& CO.

417 \& 419 Montoomerv Street.

## READ THIS!




 he succeeded in masteriug the flames, and pre
worse consequences.-[Evoning Bulletin, Aug. 4 .
THEN THIS!

## Comet Illumitating 0il !

Manufactured expressty for Stanford Bro.
Brand of Kerosene
Is warranted free from Camphene, Petroleum, or any other explosive material, and is the
BEST FAMILY OIL IN THE MARKET. STANFORD BRO'THERS, Nos. 121, 123 and 125 Califr-aia street

## Sur $\mathfrak{B e a f f t u n g ~ f u ̈ r ~ © r f i n d e r . ~}$

Erfinber, meldie nidyt mit ber engfifduen Spradje befant fint, fonnen ifre Mitthungencil in ber beutidjen Spradje madicn
Sizzenvon ©rfintungen mit turzen, beutYid) geiduricbeners Beidurciburgen beliebe man zu abbrefiliten an.

$$
\text { I. SLLVERSMITH, Exehange Building, Roon } 23 .
$$

## Gird's Budding Knife,

T
$T$ he attention of farumbs, horticoliturists Impliements, aro relerreat to the the aibeve invention. description and engraving see Minusg AND ScIENTMO
PRRSS No, 24 , vol. $\%$. Prpas No. 24 , vol. Y .
State, Territory and workshop rights for sale at reaState, Terrritory and workshop rights for sale at rea-
sonable prices.

Addess, | $\begin{array}{c}\text { Address, } \\ \text { sep } 1-3 \mathrm{~m}\end{array} \begin{array}{c}\text { Publishers of Mining \& Scientific Press, } \\ \text { (Agent Sor Patentee) } \\ \text { San Francisco }\end{array}$ |
| :--- |

The Occidental Motel
is Now
Open for the Reception of Guests
$T$ his hotse mas ati. the modern improve
 onvesileuce of the public genurally, huvilag in

News Stand,
CABINET FUR MINERALS
A Branch Telograph Office,
Connectiog with all the liaes throughouthe country. LewIS LELUND \& CO
San Francisco, Jan. 1st, 1863.
MUSIC! MUSIC!! MUSIC !!!
A. K $\overline{O H L E R}$,
importer of etery description of Musical Instruments \& Musical Merchandise SHEET MUSIC \& MTSICAL BOOKS.
GeNUINE ROMAN STRINGS, \&e.,
Lighte's New Patent Insulated Iron Frame is put into all of
Ligits \& Bradbury's Overstrung Pianos.
Wherever these instrumeuts are kuown they RANK AS THE FIRST AND BEST Ingtone, delicacy of touch and durability. All the leading Mrusicians of the country luve testified to their superiority.
A. KOHLLER, Agent fur the Pacige Coast.

MELODEONS AND HARMONIUMS
from the criebrated manufactory of
MASON \& HAMLIN,
Warranted superior to all olhers.
Non Send for a catalogue and Price list.
$\begin{aligned} & \text { A. KOHLER, Agent. }\end{aligned}$

## To Mill Owners.

Wanted, by n person fully competent to the position,
a situation as minme Superwiventent in a Gold or Copper a situation as Aisisg Supsmexrenment in a Gold or Copper
Miue. The Applicant was engaged for about eight yuara as Supermintendent of Copper Miuing Forks in Cornwall, and Las aeted in the same capacity in Gold Mines in this
State for the past seven years. Ho has had much expe State or in Cornwall, as an Assayer, a Machinest,
rience,
a Draughsman, a Surveynr and na Assorter of Copper a Draughsman, a Surveynr and an Assorter of Copper
Ore. He can give ample testimonies as to his capacity for the positiou he seols
Apply at this offee <br> \section*{\section*{W. T. \& J. GARRATTT <br> \section*{\section*{W. T. \& J. GARRATTT <br> <br> City Brass and Bell Founders <br> <br> City Brass and Bell Founders <br> <br> B $^{\text {ABBET METAL CASTINGS, TTRE ENGINES FORCE }}$ <br> <br> B $^{\text {ABBET METAL CASTINGS, TTRE ENGINES FORCE }}$ <br> <br> $\mathrm{B}^{\text {and }}$ and Lirt Pumps, Clurch and Stamboat Bells, Tav. <br> <br> $\mathrm{B}^{\text {and }}$ and Lirt Pumps, Clurch and Stamboat Bells, Tav. erra and Hind Bells and Gongs, Hose and nll other joints, erra and Hind Bells and Gongs, Hose and nll other joints,



 ratt's Patent Improved Journail Metal.!.} ratt's Patent Improved Journail Metal.!.}

## SQUARZA'S PUNCH,

FIRST PREMIUM
at the sacramento agriculitral state fair

## FOR 1862.

ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862

## Mayufactory, wholesale afd retath,

No. 44 Leldsdorff street,
Opposite the What Cheer House, San Francieco.
LATEST IMPROVEMFNT
in Ladies' Buckles.
 deaters in Jewelry, that he has made mportant improve. ore made. Their simplicity, commodioustiess, and bauty render them the must useful as well as orDamental trinkels.
Orders from
Orders trom the country respectfully folicited. Fo
particulars call at or address, FREDERIK REICHCL,

- $\quad 620$ Morchant facturing street, Scwel Frat Apply at tuis ollee.


## GREAT REDUOTION

 IN PRICES.STANFORD BROTHERS,
121, 123 and 125 California Street,
Eeep the Largest Slock of all Kinds of
Lamp Stock
And will Sell cheapre than nny other
Lamps, Cubrneys,
Wicis, Campuene,
Burning Fluto,
Alcohol, Coal Oin,
T'urpentine, Kerosrae Oill,
COMET ILLUMIFATING OIL,
Sperm Oif, Lard Oil,
Machinery Oil,
Rape Seed 0u,
China Nor Oif,
Polar 0in,
Linseed Oir, Raw and Boiled,
Shark's Oil,
Neat's Foot Oil,
Tanners Om, Eto.
Our custnmers in particular, and the country trade genn erally, are requested to ascertain our prices before pur-
chnsing from traveling agents, as wo will sell at less rates than they can afford to.

## 50 lbs. IIARINE AND

Fire-Proof Paint,
 from ground in this city, for Hullis and Decks of Vessels, thnrge and six other Minerals. When used on tue Decke or Buttoms of ships, it is equal to n coat of Stole and cheaper cheaper than any other paint.

## DIRECTIONS :

For Decks of Ships, use two parts Mineral Palnt, one part White Lead, mixwith Linsect on. ground sulphur three parts Miueral Paint, mix with Coal Tur and apply it hot. Fale by all Ship Chandlers and Tradesmen, in boxes of 50 lbs . each, or by the Pacite Metallurgical Works.

25 POUNDS FIRE-PROOE PAINT.
When ured on Roofs, Buildings, or Fencea, it is equal to covering them with a coat of stone, belpg perfectiy Fire Proos, and coasting less than any paint.

## DIRECTIONS:

HOUSE :-Mix three parts Mineral Paint with one par white lead, thin with Liussed oil: if a lighter color is RUOF:- Fivo parte of Mineral Paint, one part white Lead; mix with Linseed oif. Put it thick on a tin Roof as one coat when properly appliedwill last three years. TROQDE, Sunerintendent.

WORKS, North Beach; Office, 318 Cali= formia ste, Snm Francisco.

## WRIGHTIS PICKS.

TOHN WRIGET, of Sacramento, bas establshed bimself in San Francisco for the manufacture of every description of I MCKS, of the best material, at reduced prices. Picr Fyes of the bestiron furnished in any quan tity, at low rates Orders from the eountry promptly
atteuded to. N. B.-Nove gevuine unless stamped with atteuded to. N. B.-Noue gevuine unlesy stamped with my name. JOAN WRIGHT, 511 Market atrect,

## REMOVAL.

FFICE OF THE PACIFIC MENAL-
lurgical omee is removed to 318 California strect ving eularged our Works at North Beach, we are how cmabled lo reduce from 10 to 15 tons of silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepiogs reduced or purchased. COPPER OBES-Highest market Yntes adpanced in
cash, for shipmenta. S, C. BRADSHAW, Agont
cash, for shipments. S. C. BRADSHAW, Agont,

318 California street, near Sansome, up stairs.

SPECIAL NOTICES.
OFFICE OF OPHIR SILVER MINING CO., San Francisco, March 10th 186s.-The regular quarterly Meeting of the stockholders of this Company will be held on Weduesday, the 18th instant. mar16

THOS. J. LAAMB, Secretary.

Office of the San Franciseo Gold and Silver Mining Company. SBn Francisco, March 16, 1863, The donual Meetiog of the above named Company will be held at the Company's Office, No. 7 Houtgomery Block, ou Monday, April 8, at 1 o'clock, P. M.
Mrs. 16.td
J. H. BLOOD, Secretsry.

Office of the Tennesee Gold and Suver Mining Company, San Frndeikeo, March, 16, 1863.-The Annual Meeting of the Stockholders of the sbove named Company will be held at the company's Oflice, No. 7 Montgomery Blocl, on Monday, April 6, 1863. mar16-td
J. H. blood, Secretary.

## Volcanic Smelting Furnace.

Persons destring information as to the USE A. a economican properties of this Furnace. and inteadiag to make une of the samme, when sstisged of its
superiority over all other means of reducing ores and superiurity over all other means of reducing ores and
geperativg metals from the sulphurets, can obtain ail geperdateg eplanation and antrice in regard to the same, and
nee terms of sale of rights to use the same, od application
the

 Drawings may be seen at the office of Col. J. D. Stevenson,
No. 14 Merchant fircet, or at the oflice of T.Ogs Shaw

The time required tor rezucing ores by this Furnace is from thre to eight hnurs, and the amonut of fuel only
one-tenth as much as is consumed by other processes. one-tenth as much as is consumed by otber processer. The process of condengation is applied to this Furasee Which will save all those portions of The atteution of all miterested in the subject is requested to examine the important results obtained by this proCess. ${ }_{\text {Parties }}$ wishing will be sllowed to erect a trial Furmace of a capanty for smelting one ton of ore or more, on
sIgning an obligation 20 pay the usual fee for the right to use it, should they continue to make use of the invention for a longer period than two months.

W anted by an Intellifent and active young man livelibnod. He is about 36 years of age, and is a good penman. Enquire at this offce.

## New Style of Lady's Buckle.

W. BOHM, INVENTOR \& PATENTEE

THE SUBSCRIBRR HAVING OBTANED LETTERS PAT ent from Washington for an jumprovement io the
conatructon of Ladies' Buckles, 18 nowready to furnimh the same in every variety of style. This buckie posserses seeveral very inportaut improvements over any
other in use.
The invention having been carefolly examined at the
Patent omice, has been adjudged to be a useful improvePatent OHfce, has been adjudged to be a useful improve
ment, and Letters Patent have been granted for 17 years mexcells all other buekels in

Userulness, Strength and Appearance.
The Public is reapectruly invited to call and examine this Buckle at the Jewelry Esitablishment of

BRAVERMAN \& LEVY,
621 Washing ton Street, San Fravesco.
JOSEPH, BROTHERS 607 Montgomery Sireeet, BROTHERS, Francisco.

FLOBERG \& CONRAD,
Every Buckle sold will be guaranteed as to its Sttength
W. BOEM, Patentee.

IHEODOR KALLENBERG

## Maker of Models FOR INVENTORS.

M M ical Instruments, Scales, Weights, ete.; Repairigg of Machinery promptly astenitad to. au7.3m) San Fraycesco.

## WASHOE

Stock Exchang,
N. E. cor. Montgomery \&ivehant sts. SAN FRANCISCO.
L. W. NEWELL \& CO.,

Buy and sell Washoe, Esmeralda and other Mining

FULTON FOUNDRY \& IRON WORKS
HINCKLET \& CO., indnutatturbrs of
Steam Hingines, Quartz, Flour and Saw Mmls; Cast Iron Fronts, for Bulldings, Mining Pumps, and all kinds of Machinery, Ete., FIRST STREET,
Betwigk Mareet and MLislos............San Fraxcisco.
 cast. Repairing of Blachinery neally done.
PATIERX MAkNG in all jits various forms. D. B. Havesiey. Wm. E. Worts. WM. A. Finid.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel.
THE SIMPLE, COMPACT, STRONG AND
effective manner in which it is appled to any height of
fall, ( 3 feet to 300 ,) and to any kind of machinery, will
Save in Transportation Material and Labbr, from
25 to 50 per cent. of the entire cost of the
Structure to which it is applied, and propor-
tionally increase its value.
For full information from the Inventor, apply at the Miners' Foundry, trom 10 to 11 A . 2 ., or address J. 3. Betr. Miners' Foundry, San Francisco.
12. This Wheel if fully goarantikg. Jaul9-tif

## Ageney For Patents.

$T$ He UNDERSIGNED having been long established in
1 the Patent Agency Busioess, and beriag favorable arrapgements for ateurding to the interests of iventors
at the Patent omico in Washington, offer their services
for the securing of Cavears and Patents also, will atfor the securing of Cavears and Patents also, will at-
ten to the sales of Patent Rights, and to all matters tea to the sales of Patent Reghts,
counected with putented invey
tions.

WETHERED \& TIFFANY, Omice, 410 Montgomery street. CEARLES R. BOND, (Late City and County Agsessor.) REALESTATEAGENT, No. 410 Montgomery street, San Francisco. REAL ESTATE PURCHASED AND SOLD, AND LOANS NEGOTLATED.

## WHEELER'S <br> Amalgamating and Separating Pans,

It is acknowledged by all who have exanined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The mnst important principle connected with the operation of these Paus in the geparation of the triturative
process from thr of exrracting the amal gam from the process from thit of extractiog the amaligam from the
saud. The chief canse of lass of the precious meetals artsand. The chief canse of lass of ce precious metais arises from tsil pas, during the proces of trituration, nad in
the equing up. By the iotroduction of tue Separatiog Pan
cleaning cleaning up. By the introduction of te Separatiog Pan
to frllow the trituration this loss is eutirely a annided. ID Working these macchines there is no appreciable loss
quicksilver, and heuce none of the precious metals. Where these Pans bave been introduced and operated Where these Pans bave been in troduced and operated
by the side of others on Eands from the bame pat, the
Wheeler Paus have uniformly gained a alarge percentage Wheeler Paus have uniformly gained a large percen tage
of metals over its comperitor s, as well as a still larger of metals over its compentitor, as well as a
percentage in the ampunt of worts performed.
${ }^{*} \neq$ : These Pang man be seen in daily operation, at the Miner's Foundry, on First street in this city, where al $l_{\mathrm{i}}$ interested are invited to call and examine for themselves. nol6-tf

ZENAS WHEKLER.

## JULIUS SILVERSMITH,

Commissioner for Nevada Territory,
OFPICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington streets.,
 ed territory, a share of their patronage in all malters requiring the official netion of a Conmissioner-such as
tue draming upof affidarits, acknowledgments, the tak-
ng of testimony, otc.

## P. M. S. CO.

Pacific mait stramsip companrii
 Steamship Company at Aspinwall.

## FOR PANAMA.

The following Steamships will bo dispatched in the month of February, 1863.
March 21st, $=$ - Stenmer Constitution
Will leave Folsom Street Wharf, with Passengers and Treasure, for Panama

## AT 9 O'ClOCK, A. M., PUNCTOALLY,

And connect, via Panama Railroad, at Aspinwall, with teamships for New York.
For Freight or passage,
A. B. FORBES, Agent.
je4 Corner of Sacramento and Leidesdorif sts.

## Miners' Foundry

> -ano

## MACHINE WORKS,

First St., between Hownra \& Folsom, SaN francisco.
$\mathbf{E}^{\mathrm{VERP} \text { nescripron of row and brass mactir }}$ in the state of Calitiornia, wrill be furnished with dis patch at the Miners' Foundry and Machine Works, as :
STEAM ENGINES AMD BOILERS, FI.OUR, SAW AND QUAPTZ MILI MACBINERY, MNIVG PUMPS
AMALGAMATORS, RETORTS, ETC., ETC.
Particular attention will be given to the manufacture of Maebinery in sections, desigued for places of difficul secess, Yariour models of Quartz Crushers, Amalgama.
tors and Water Wheels-some in operation and on exhibition. $\begin{gathered}\text { tit. } \\ \text {. }\end{gathered}$ Parties desiring to test their ores practically, in smatl quantities will be alforded ample facilities, free of cost.
All parties desiring accurnte and highly falshed draw ags aordially invited to call beforo conitracting tisewhicere. hotwland, afgel of king.
San Francisco, February 23, 1863.
DONAHUE'S
Union Iron and Brass Foundry,
Coryer of First and Meston Streets, San francisco. The Firat Estathintance in the state.
M SAW AND GTRE STEAMENEANES, Quartz Stampers, Amalgamators, etc., cle., at reduce Quares. Have now the largest and best assortment of
pricer. Ha Brachinery Patterus in the Sinte, a list of which will be forwarded to anyone desiring it, free of
cust.
PETER DONAHUE

Holiday Presents !
WUTCHES,
DIÁMONDS,
JEWELRT AND
SILVER WARE

## BRAVERMAN \& LEVY'S,

 621 Wasmington street,$W^{\text {E CALL TEE }}$ the public in geeeral to our well assorted stock the public in geaeral to our well assorted stock dewelrix and silver ware,
of the latest and Most Fushionable styles, which we
have received by the last stenmer. Arso,

## FRENOH CLOCKS,

PRECIOUS STONES,
Which we are selling, SET or UNSET, at the very
LOWEST PRICES.
braverman \& Levy,
Dec 29 1m
BRAVERMAN \& LEVY,
No. 621 Wasking ${ }^{\text {s/reet, }}$
Facing Maguire's Opera House
SQUARZA'S PUNCH. HOME MANUFACTORY.
No. 44 Ledesdoxfir sto. near
No. 44 Ledaesdoxff st.. near Sacramento

PALMER, HANSCOM \& CO GOLDEN STATE IRON WORKS,

No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds ALSO:
Genulne White Iron Shoes and Dies. PALMER, HANSCOMB \& CO

## To Quartz Miners.

 Knox's ImprovedAMALGAMATING PAN WTrH
PALMER'S PATEN' STEAM CHEST.
THe ABOVE combination seccres the most proces now known.
By it steam is introduced in the most effective and ecoBy it stesm is introduced in the most offective and eco-
nomical manner, while it is peculiarly adapted to the nomical manner, while it in peculiarly adapted to the
catcling of flosing gold and silver, kowa to bo other
 Nos, $19 \& 21$ Gonirs state Iroa Works,
The public are informed that Letters Patent have been
 sre eiutioned against mnking, buying, using or selling
the same without his consent. W. A. PALMER.

## VULCAN IRON WORTS CO.

P. TORQUET

MANAGER
R. IVERS. C. R. STEIGER. S. ATTKEN.

## Steam Engine Builders,

Boller Makers, lron Foundersand Gen eral Engineers,
Nos. 138 \& 139 Fmist Strakt,
Steambat Macmasery built and repaired; also Saw, Flour and Quartz Milla, Pumpiag and Mining Machinery
etc., etc.,
etc.,

Proprictors of Morse's Patent Fire Grates, Jorval, Foukneyton and other Turbine Water Wheols, with latest improvements.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Brano Road, Islais Creek,
$G$ oand bearng sclphitrets workin at rens. G ONABLE RATNS. ALI THE GOLD EXTRACTED by Chems ical process. Field of Sulphurcts from 30 to 50 per cent
higher than the BEST AMASGAMATION P1RUCESS. her Apparatus for boparating Sulphurets set up by exmill owners. No power nor clean water required for be purpose.

LEWIS COFFEY AND RISDON, STEAM BULLER AND SHEET TRON
The only exclusively Boiler Making Establishment on the Pacific cuast Owned and conaucted by Praction of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY

## JAMES PHELAN,

(Late J. \& M. Puelan, )
IMPORTER AND JOBBER,
Wines; Liquors, Etc., Eto,
Nos. 616 \& 618 Front street,
Between Juckson and Pacific Streets,
Eatablished 1849 .
Established 1849.
All Goods Guaranteed. Orders Solicited TERMS LIBERAL.

Solicited
Jan. 1 -If.
For Sale Cheap!
A HORIZONTAK STEAM ENGINE OF
A 4 -Hurse Purrer, Fluo Boiler, in excellent order
original cost. Apply to JULIUS SLLVERSMITH,
Federal Building, cor. Battery and Wasbington S


W．B．EWER， EDITOR．

## VOL．VI．

SAN FRANCISCO，MONDAY EVENING，MARCH 23． 1863.
NO． 2.

List of Mining Companies having their Offices in San Francisc．

| Siame of Compriny． | Locality of Sive | Viame of secretary． | Locality of Offec． | C引リital sluck． | $\left\|\begin{array}{c} \text { Par } \\ \text { Value } \end{array}\right\|$ | $\begin{aligned} & \text { khis } \\ & \text { firy } \\ & \text { foriot. } \end{aligned}$ | $\begin{aligned} & \operatorname{snc} \text { cs } \\ & \text { to } \\ & \text { date } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | hame | P． 1 | ：05 Munkown＇y at | S 1 | 100 | 1 | some |
|  | Hemmeralith If－trior | I．L． | 305 J叫kam＇y st |  |  | 1 | yone |
|  | chald Fas Nevoul | 1．L． |  | 5 50， | 510 | 1 | He |
| ¢опк．．．．．．．．．．．． | l－maraita ${ }^{\text {a }}$ | 1．1． | ． 05 Somatentm＇y nt | G1，相 | $1101$ | 1 | нояе |
| Cr | Fintueralidu blatriol | T．1．B3L |  | 120， $20 \times 1$ | J00 | 1 | ноия |
| Sutoris | Comerablat Imatrich | F．L．13ib | 305 Montmomy ${ }^{\text {at }}$ | 14 ， 4000 | 100 | 1 | rome |
| Sisued | Fixmerada Disitita | 1．I．Bib | ：05 Manteron＇y st | 120，000 | $1001$ | 1 | Homa |
|  | Pi＜meralin listric | ＇T．L．Bub | 305 Mrutgenm＇y st | 120，＊ия |  | 1 | 500 |
| lahy opthe What（f） |  | I．L．Bilb | 305 Mrontgam＇y st | 14n， 6 ce | 1010 | 1 | （whe |
| k－tick ．．．．．．．．．．． G \＆ | Broseralitu liast | T．L．Bibln | 30.5 Montgany $y$ st |  | leor | 1 | rone |
| Crbatbit．．．．．．．．G d | F－meralian District |  | 205 Mouktom＇y st |  | 100 | 1 | ：n 1 be |
| Ir8isex．．．．．．．．．．© \＆ | Yau Iorn District， | T．L．Jhbuin | 305 Mrantgom＇y st | Bua， 4008 | 100 | 1 | 1．0ne |
| Lucran．Jhat．Mivil | Tualunne County | C．A．Higan | 410 Jontgom，${ }^{\text {st }}$ | $300.0 n \mathrm{c}$ | Ino | 1 | поиe |
|  | Russ District | C．S．Hyg＇m | 410 Jomttann＇ysi | 1．6 6 10， 140 |  | 1 | 299 |
| Сохиная | Telescope District | $\because$ s H | 410 Montgom＇y st | $8950.10 \times$ |  | T | 75 |
| Bremes | Ruas matriet． | Hig | 410 Montgom＇y st |  | $5^{5 n}$ | 2 | 1700 |
| Waits to Moriviy，$G$ \＆ 5 | Virginla Dastrict， | J．l＇Xou | Lnchs a Thurners log | 126，0\％m |  | 2 | ： 3000 |
| Manse l＇gieta | Emora，Mresico | J．P．Nour | Lucan \＆Turners by | 2，204，004 | 100 | 1 | 68000 |
| biresivg dio | Yirgins：District， | IP P．Nonle | Lucas 4 Turn rsibg | 488， 110 | 100 | 2 | 0 |
| Brahery | －ilver city | FS | 415 Sillnome st．．． | 2811,140 |  |  |  |
| Amertcan． | Virgiusir District， | R．S．Taylo | 612 Washturton st． | 180，0012 |  | 1 | 0 |
| F1 | －lati Range Bistr | A．H．Clatk | 523 W．1shington at | 105，006 | 510 | 1 | 50 |
| Slate Range | Silte Radiolliatr | A．H．Clark | 522 Wasbintion st | 1．5．010 |  | 1 | 50 |
|  | Niste Rauge Distr． | A．H．Clark | 522 Washingtun st | 316,1040 | － 1611 | 1 | ne |
| Pailadelp | Slite Range Distr． | A．H．Cla | 522 Washangtun st | 815,010 |  | 1 | 0 |
| Nıw Yопк | ：inate Range Distr． | A．H．Clar | 522 Washungtou et | 315，„110 |  | 1 | 10 |
| catarachle | siate Ragge Dutr | d．H．Clar | 522 Washington st | 315，000 | 150 | 1 | ne |
| Alkas | Shute Range Dist．． | A．H．Cla | 522 Wasliingtan st | 315,0 |  | 1 | 4200 |
| I AADY Brya | Flowery Distriel．． | J．H．I．ym | ＋Armory Hall．．． | 5nm，000 |  |  |  |
| mamert 3 S | Flowery Mistricl．． | J．H Lyyon | 4 Armury Ha | 441，000 |  |  |  |
| Amelat | Flowery Dietrici． | J．H．Leyo | No 4 Armory liali | 270.1040 |  |  |  |
| Eviratt | Humbehld， N Per． | 3．11．Giage | Mercht st，mut bik | 120，000 |  | 2 |  |
| Конти stab．．．．．．G\＆ | Ifnmbolde，N．Ter． | J．H．Ginge | 3ipreht at，mat bik | 44n，6ion |  | 1 |  |
| Cит\％＊ | silver Ath，modo． | 1．H．Ginge | Wercht at，minh bik |  |  |  |  |
| F－phella Del montae el | silver mta，rono． | J．H．Gagar | Hercht st ，mnt blk | 300，000 |  | 1 |  |
| Manhatane．．．．．${ }^{\text {G }}$ | Humbold dis．n．t． | d If．Gage | Mercitst，ma，blk | $180,0 \mathrm{ck}$ | 100 | 1 |  |
| Lite Oak Conver ．a Mr | Gupher，Calay co． | J．II．Oage | Mercht st，mat blk | 252，000 |  | 1 |  |
| Sight．．．．．．．．．．．． 6 \＆\＆ | Humbuldt，N．Tor． | 3．H．Gage | Merehtat，mut bli | 6nn，000 |  |  |  |
| Occlueatal | Eimmat Fruncta diz． | J．II．Gage | Verchtst，mat blk | 245，000 |  |  | 3671／2 |
| Assie L | Humboldt listrict， | ．f．H．Gage | Mercht st，man bik | 600,000 |  | 1 |  |
| dietsa．． | L－meralda Districi | W ${ }^{\text {diam }}$ W | Aurnra，Mou | 120，000 |  |  |  |
| Almasira | Heval＇s Gate Dinct | J．O．Strau | 815 Finutime atreet | 101，000 |  |  |  |
| W＇me Weat ．．．．．G \＆： | Evmeralda District | S．Paltce | 522 Montiom＇y st | 1．3no，000 |  |  |  |
| Chnsolidation．．． | Pameraldu Districi | s．Pattee | 522 Montgom＇y kt | 1，760，000 | 400 | 1 |  |
| Reaz lisl Monte， | Fismuralda Dist | \％．Pattee | 522 Montgom＇y sl |  |  |  |  |
| Examalda Muing Co．． | Eameralda District | S．Patte | 52．2 Washingtou rt | 900，000 |  | 1 |  |
| fimgralda，N．Extch | Esmerulda Distriet | 5．Patto | 522 Mouthoin＇y at |  |  |  |  |
| foxrralis． | Eshucrabla Distr | $\therefore$ Pat | 522 Montgrm＇y at | 1，600，000 |  |  |  |
| Silven Hill，Cousolid＇tal | Famcralda Districe | 5．Pat | 522 Mmintgom＇y st | 1，500，000 |  | 1 |  |
| A．7T\％\％ | Earaeralda Distriet | S．Pat | （22 Montgom＇y st | 600， 000 |  |  |  |
| Lntlsa | Siver city Listrice | J．F．Pope | 115 Califoruin st． | $20 n, 000$ |  |  |  |
| Rock | Flowery Distriet． | IT．F．Pope | 115 Califonior rt． | 900.1000 |  |  |  |
|  | Devil＇s Gate Distr． | 3．F．Yope | 115 Calilorina st． | 300，000 |  | 1 |  |
| BKLLI VISTA．．．．． 6 d S S L | Lower California．． | S．S．Suragne | Cor ral sramsome | 72，016 |  |  |  |
| Burnside．．．．．．．．．．． S．$^{\text {S }}$ | Virguia Distriet ．－． | 5．C．Lowell． | 712 Montgm＇ry nt | 280，nou |  |  | 8400 |
|  | Esmeralda listrict | 1R．N．Vau Bra | 726 Muntgm＇ry kt | 800，000 |  |  |  |
| Iowa．．．．．．．．．．G．\＆S． | Vi，kiniu District．． | R．N．Van Bruat | 726 Montgm＇ry st | 1，201，4100 | 1 noo | 1 | 16600 |
| Latmone Tun \＆Mi＇g Cn | Virgiuia Districl． | R．N．Van Brunt | 726 Montgm＇ry at | 1，250，000 |  |  |  |
|  | Virginia Distriet | R．N．Vay Brunt | 726 Motugm＇ry st | 80， 5100 |  | 1 |  |
| Rhear Raver ．．．．g des． | Reose River Distral | R．N．Van Brun | 726 Montum＇ry st | 1，200，000 |  | 1 |  |
| San Marchal．．．．．．．．S． | Sonors，3exic | R．N．Van Bru | 726 Montgm＇ry st | 204，sino |  |  | 17900 |
| Savace Mlning Co | Virginia Inite | Ci．B．Mcamey | 712 Montgin＇ry st | 1，600，000 |  |  | 108000 |
| Caimordia．．．．．．${ }^{\text {d }}$ | Virgmia Dist | I）．W．Young． | Cor MontL \＆Jckn | 1，080，000 |  | $135 t$ |  |
| Critral．．．．．．．．．．．s． | Virglia List． | （i）B．Mearucy | 712 Montgm＇ry ${ }^{\text {t }}$ | 540，006 |  |  |  |
| Cedar Hill m．\＆T．co． | Virciniat Distric | C，J，Furring | 509 Sacramonto st | 1，nus，whe |  |  |  |
| Стияция ．．．．．．．．．．．．．． 6 | Virkinia Distric | W．E．Dean． | 53，Muntgry Block | 1，080，000 |  |  | 0 |
| Comyango．．．．．．．M co | －iver city． | W．E．Jean | $53 \mathrm{Mnatg}{ }^{\text {＇r }}$ y Block | 350，010 |  | 1 | 1000 |
| Crown Pentat ．．．． 6 \＆ | Gold Hill District | J．H．Jon | 321 Front street． | 1．200，000 |  |  |  |
| Charlea Cauey | Levil＇s Gate Dist． | Gomer Evans | 8338 Monlg＇ry st． | 54，0002 | 30 | \＄ |  |
| Curesirala． | Esmeralda District | Jimes Neary | 3：6 Clay stneot．． | 60,004 | 100 |  |  |
| Chamer | Wambera da Distict | James Neary | 3：6 Clay st | 64.1108 | 100 | － |  |
| joyis． | Wameralda District | I．1mms Nery | 326 Clay st | 680,000 | 108 | － |  |
| lauacs | E＇smeralda Distriet | Jatmes Neary | 3326 Clay | 6 6，0me |  | － |  |
| Kısler ．．．．．．．．G \＆ | Enmerelda Lintriet | James Neary | 326 Clay s1 | 60，400 | 100 | $\triangle$ |  |
| Viblard．．．．．．．．．．．g \＆ | Eameraldu Dnstrict． | Jumer Neary |  | 60， 6140 | 125 | $\overline{1}$ |  |
| Dane．．．．．．．．．．．．．G\＆： | Lameraidis Dist | Josoph R．Beard | 4 Armory Hall． | 6，10，0013 | 2 | 1 |  |
| Lryy Dale | Esmeralia District | Juseph R．Beard | 4 Armary Hall．． | 240,0023 | 3 | 1 |  |
| Manmoth， | Ekmeral lia District | Joseph R．Beard | 4 Armory Hall．．． | 210，0no | 30 | 1 |  |
| Movit frop | Yirgin．\＆Gnla Hall | Thos Brownjoh | 621 Clay strcet．．． | 1，100，000 | 6 no | 1 |  |
| Solrbad． | Solerlad Dis．I．os An | Georga H．Rusbell． | 636 Sacramento at | 780,000 |  |  |  |
| Copysr | Soludad Div．Lesan | E．Barry ．．．． | 636 Sanaome at | 840，000 | 100 |  |  |
| Madisia ．．．．．．．．．G \＆${ }^{\text {S }}$ | Virgina District． | P．B．Cornwall | 608 Nerchant st | 700,0480 | 600 | 1 |  |
| Solirn Urah．．．．．．a \＆： | Esmeralda District | P．B．Cernwall | 608 Merchant st | 400,000 | 1 m |  |  |
| Nbrada Mliuing Co．．．．． | Esmeralda District | P．B．Cornwall． | 608 Merchant st | 3n0， 000 |  |  |  |
| Tuckrr．．．．．．．．．．G \＆ | Esmeualda Dixtrict | P．B．Cornwall | 608 Merchant st | 5，000，000 | 545 | 1 |  |
| Pouv．．．．．．．．．．．．${ }^{\text {P }}$ \＆ ： | Eameralda District | P．B．Cornwall | 608 Merchant st | $6 \mathrm{m0,000}$ |  |  |  |
| Metropolital Cobpera | Capheronolis | P．B．Cornwat | 608 Merchant sil | 200,000 |  |  |  |
|  | Gold LIII Distr | P．B．Cornta | 608 Merchanl st | 300,000 | 10 | 1 |  |
| Tucser Tunnel Co．．．．． | Esmeralda Dist | （P．B．Cornw | （008 Merchant $\mathrm{st}^{\text {d }}$ | 1，600， |  |  |  |


| Namo of Company | Locality of Nino | Name of Secret ary | Locality of Omes | Caplta stock． | $\left\lvert\, \begin{gathered} \text { Par } \\ \text { Value } \end{gathered}\right.$ | $\begin{gathered} \text { shrs } \\ \text { per } \\ \text { foint. } \end{gathered}$ | $\begin{gathered} \text { asa'ts } 18 \\ \text { to } \\ \text { date } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V1／ |  |  |  |  |  |  |  |
| bluca Ridigs Mimaic： |  | 13．J．Tur | 606 Mnutgom＇y st |  |  |  |  |
| Madisulu，Slate Ralcil | Al | （1．3．Tur | 606 Mantgan＇y st | 260，500 |  | ， |  |
| Eall likal．Slate Rahgr | Slate Ratly | （i．J．Turn | 606 Montgem＇y st | 210．0100 |  | 2 ft |  |
| Crrcai Mhumg Co．．．． | thate la mik | （i．J．Tu | 606 Mantrom＇y st | 195．0n0 | － | 2 ft |  |
| Thimios． | Virpinial li－tion Kircinia biatr | V． C （hway | Mer．at．Mmgy blk | Bun， 0102 | ， |  |  |
|  | Virginia histr：cq．． <br> thevil＇s finle J ins． | W．K．Wena | 123 Catifurioit st． | 1.5 nn，nov 880,000 |  | 1 |  |
|  | Vugiuia Dist | C．Ster | 6 Prarrots 》uitding |  |  | 1 |  |
|  | Crivte \＆Whchoalj－ | C．Strvolis | 6 Parrots linilling | 1，100，000 |  | 1 |  |
| MAS | Emhara，Mexicar．． | F．H．Wite | 618 Marehant au | 24u，000 |  | 1 | O |
| Olizipa | W－meratala Jistriel | Fi．Danin | At．Custom H use | 6no，0n0 | 5 50， | 1 | He |
|  | Sumambucou＇ty | © Thanel | 414 Montzum＇y st | 570，000 |  |  | 2280 |
| Shat Wreget | Alatam，Muna（\％） | 1i．Worth | 547 Wasbingtion at | 700 | 500 |  | 0 |
| St．Clask | Autura，Munn Cr． | Fic．Worlh | $5^{517}$ Wushington ${ }^{\text {a }}$ | 120 | 2 ct | 1 | nono |
| Fimprrat． | Aurara，Meno Co． | 1i．Worth | 545 Masbinum |  | 80 | 1 | none |
| Juskphma | Cushmismet | W．W．La | steveuson Inuso． | 1，200，050 | 250 |  |  |
| IEweli．， | levil＇s Gite | Juluil Arm | 612 Merclant 81. | 120，000 | 200 | 1 | 00 |
| Jлск Hay | Fismertalda lhatricl | J．H．Blund | 7 Montgom＇ry R1／k | 60,1001 |  |  | none |
| Tbantaska | Fimeralia licters | J．H．Bltart | 7 Muntgom＇ry Bik | 50，0 |  |  | de |
| Simf falch．．．．．．G \＆ | linmeralia Dratrici | 1．H．Bluod | 7 Montgum＇ry Blk | 700,000 | 100 |  | none |
| Fulton． | Cismeratha Dowrici | J．H．Blatat | 7 Montgom＇ry Blk | 100,008 | 100 | 1 | none |
| Kobler Bru＇s | Sin Antonin，L． $\mathrm{C}^{\circ}$ ． | Kohler Bra | － | 24，000 | 1000 |  |  |
| Jucurno Mining C | Ginde Hill histricl． | J．S．Praton |  | 9vo，00n | 500 |  |  |
| Monut Davidsmu（：k ： | $V \mathrm{Viminia}$ bintrict．－ | F．A．Pathins | 47 Montgom＇y Blk | 5，000，00 | 200 |  | 20500 |
| Meredith ．．．．．G \＆ | Virginja District．． | E．13．Holmes | 712 Monign＇ry BIk | 800，000 | 125 | 2 |  |
| fioneer＇rosc．．．．．G | Coin listrict | 6．B．Ifolmes | 712 Montgo＇ry Blk | 450，800 | 100 | 1 | 27000 |
| Manzau | Kinilot，M Mxien ．． | －Edrly | 616 Merclinnt rit | 660 |  |  |  |
| Mosw．．．．．．．．．．．． 6 \＆ | Virgilia mistriet．．． | R．T．C．I＇m | 428 Moatgom＇y Et | 600,000 | 500 |  |  |
| Madisch］．．．．．．．．G \＆ S | Virglaia Ibistrict． | P．B．Cornm | 608 Merchant str | 700，000 | 500 |  |  |
| Eouth Utalh | Esineralda Distric | 1．B．Coruy | 608 Merchant str | 400000 |  |  |  |
| Molamer \＆ | Calaveras County， | I．Franconi | Lucı\＆Turner bp | 150，000 | 50 | 18 f0 | one |
| Alamedr Coal Minı | Alimeda County ． | L．Fravemil |  | 500,000 | 100 |  | 6800 |
| Irope | Humbit Nev．Ter． <br> Flumbolt Ney Tue | L．Fraturabi |  | 180 | 100 |  |  |
| Itope | Flumbol！Nev．Ter． | I，Franconí |  | 180 | 100 |  | 0 |
| Ophir | －Viryinia Distries． ariryiuia Dist．iet． | Thos J．Lain |  | 5，040 | 300 | 1211 |  |
| Nort | Viryiuia Dist iet． | E．V．Joice． | Yor．But，\＆Wash | 350， | 520 |  |  |
| Sorm | Virginia District． Virginia Destrict， | J．H．Brewer | 40 montgom＇y Plk | 160，000 | 100 |  | 8600 |
| vada | Virginia Destrict， lravil＇s Gale Dist | J．H．Brewe J．H．Brewer | 40 montgom＇y B1k | 1，500，0 | 600 | I | 110，000 |
| Farly Dawh．．．．．．G\＆ | revil＇s Gale Ilist． lambledre．．．．． | J．H．Brewe R．C．Page． | 40 moutgom＇y 31 k 420 montgom＇y st | 2200,00 | 250 | I | none |
| Porter $\qquad$ G\＆S | lambleedge． | R． W R．Prge | 420 montgom＇y st | 300, |  | I |  |
| Ruby． | staf Distriel． | W．İ．Mari |  | 400 | $100$ |  | I20 |
| Silver City．．．．．．．G \＆S | Siluer City | O，Ristion，J | Cor．Bat \＆Bush ii | $\mathrm{I}, 000$ |  |  | $[20$ |
| Suctor．．．．．．．．．． G \＆ S | Guld Hill Dishrict， | R．H．Watler | 1 montrom＇y bik | 240 | $4 \%$ |  |  |
| Sierra．．．．．．．．．．．．．．．．${ }^{\text {S }}$ | Genoa District． | ¢．P．Vandy | 127 Clay strect．．． | 50n，00 | 303 | I | 28600 |
| Silvor City Otz．Mill Cu | Silver city | W，Bauer | 474 Washingtna | 1，20n，00 | 10 |  |  |
| Albion．．．．．．．．．．．G ¢ S | Slate Range | W．H．Chrl | 2．4 montgmery | 210，00 | $10 n$ | I | none |
| Milwaukie．．．．．．．G \＆S | ：ilate Rang | W．H．Clarke | 224 muntgmery | 270,0 | Ioo |  | none |
| Morrow，East．．．．G \＆ | Slate Rabge | W．H．Clarke | 224 montgmery | 180， | 100 | I | nor |
| Albany，East．．．．G \＆ 8 | Slate Range． | W．H．Clark | 224 moutgmery | 180，00 | 10 | 1 | none |
| Moumtain Vein．．．G ds | Slate Range | W \％th．Clarke | 224 montgmery | 240，00 | 100 | 1 | unno |
| Washingtan．．．．．．g kis | Slate Range | W．H．Clarkn | 224 montgmerys |  | 100 | I | non |
| Sncramento，East．G \＆＇s | －ilate Ramge | W．H．Clark | 224 monigmery s | 276，00 | 100 | I | none |
|  | Virginia District | Yelsou Huds | Fronu street | 120，00 | 50 | － | none |
| Encramento．．．．．．$G$ \＆ S | Virginia Distriet．． | W．Monre | 408 Californsa | 900 ， | 500 |  | none |
| Willow Spridngs G \＆S | Esmeratda Jistrict | J．H．Eayre | 224 montgnery st | 270，00 | In | I | nove |
| Sol Lewis．．．．．．．．G \＆： | Fomeralda District | H．C．rham | 622 merchan | 7 O, | $50 \ldots$ | － | no |
| Tesoro．．．．．．．．．．G \＆ S ， | Lower Californin． | 日．C．Kibhae | cur sannome \＆cal | 540,0 | 10 | － | ene |

## LABOR－SAVING

Rock Drilling Machine， $T$ and Agont and quarrymen．The subscriber．Pateute recelue nrders for
$H A N D, H O R S E, ~ A N I) ~$ STEAM－POWER MACHINLS． The liand Machines are expressly adapted for workin
in Tumels，Galleries，ete．，one ruatu performing the

## 

 limestone，six feet per hour－she rapinity of the work
being limited only by the durability of the steel drilf．
sulusfactory reference will be given as to tho prac． Sutisfactory reference will be given as to the prac．
tical warking of the machine，and its entire succoss in
reducing the cost of drilling holen to onetenth of the for－ reducing the cost of driling holen to onetenth of the for－
nier expense，and on s rock excavation of any extent， from fifty to seveuty ave per cent．ou the entire work．
Responsible parties who bave rock excavations to make Respansibe parter who bave rouk excar will undertaks
iu why part of the State，the aubsriber
and gurantec to perform thie work required，at a sav－ and gurante to perform the work required，at a say－
ing of at lasst twenty－hre per ceut．over any other pro ecss．Address orders $\delta$ Wm．W．DUNN，
Fremont atreet，bet．Market and Missinn，Ean Francisco． Second St，corner of Folsom，San Francisco tioners，as well as all other kinds of copper warls onfec

Thankral for past patronnge to a discriminating
pimblic，we beg leave to apprise at the same mo－ ment our muny friends and patrons that the abova ment our muny friends and patrans that the abova
well known Brewery has beeu permuenty located in
our new premises，on second street－the former resi－ cur new premises，on swend strect－the former resi－
donce of npt．Folsom whore wo shall endeavor to con－
tinue in furnishlug our numerous patrons with the beat anue in furnishligg our numerous patrons with the bent
article of＂Bier：＂We shall strive to perpetuato the article of＂Bier．＂We shall strive to perpatuato the
good reputation for promphtude and the fanthal execu－ tion of orders as hereturore，and thereby mereasec our
custom．Nor 9 F．G．BEPLER，
Practical Coppersmith
No． 118 （Old No．2z）Bush street，
Whilat thankful for the former conndence bestowed upon me，I desire to sny that I ann ready to make and line of tusiness：expecially all kians of apparatus used in
Breweries and Distillerios；also．all such es are used reweries and Distilleries；also．all such es are used also，Kitches uteusils for Hotels，Restaurants nud pri All ordors from the country promptly attended
[From txe London "Mswing and Sabisig Mackzine."]
THE MEXICAN METHOD OF AMALGAMATION.

> BY JAMES NAPIER, JUN., F. C. S.

Late Cbemist and Assayer to the Guanaxuato Mint, Mexico.

## [contwurd.]

The day after the incorparo (should the magistral have been added in proper proportion, a very different appearance is presented in the tentadura. There is found collected mercury which when pressed by the thumb yields amalgam of silver ; and what is in the first trial desecho-broken up mercury-appears now as what is termed limadura de plata, of a whitish colour, and in the form of thin plates or leaves which, if rubbed with the thumb, will be found to consist of dry silver amalgam called pasillc. It is from the appearance of this that it is known when the operation is going on well. It pasilla be formed in a very short time after the ingredients have been added, it as certain they have been added in proper proportions.

I'o make a tentadura, about 1 Fb . of the lama taken firom various parts of the torta, is put into a jicara aud slowly washed in water contained in a convenient vessel. The jicara is gently moved about in a peculiar manner so that the lighter part only is washed away, leaving in the jicara the limudura de platu, (small leaves of amalgam;) the mercury with its lista, or tail; and a portion of the polvillos, or heavier metallic sulphides of iron, \&c. There is now added to the jicara about a tea-cup full of clean water; when it is inclined to one side in the hand, and a gentle but peculiar movement given to the water so as to arrange the contents of the jicara in the following order :- The limadura or broKen up lis of mercury should occupy the first or upper part; the metalic portion of the ore should be below this ; and, last of all, the mercury and amalgam as a large globule. As I have stated before, the limadura is the most important part, and is inspected first; this is done by holding the jicara in the right hand in an inclined position, and rubbing the limadura with the thumb of the left hand, at the same time observing with great care its colour-the facility with which it can be converted into amalgam by the friction-and of the consistency of the resulting amalgam, that is to say, whether it contains a large or a small amount of mercury. The metalic portion, or povillos, is not of muca importance, as the state of the amalgamation cannot be judged of from it. The globule of mercury at the bottom is lastly examined as to the colour, and the quantity of amalgam which it contains is ascertained by pressing it with the thumb on the side of the jicara.

Tbese tentaduras are commonly taken from the surface and interior of the torta. The surface is a.waya the most forward from its being most exposed to the action of the air and sun. Three tentaduras, or trials, are made of each tor ta daily; one in the morning before commencing to tread; one after it has been trodden for some time; and a third after the treading is finished.

When the operation approaches conclusion, that is to say, when nearly the whole of the silver capable of being taken up has been extracted, the limadura becomes weak, and upon being rubbed with the thumb shows but little amalgam. When it ceases to do so altogether, feels soft, and combines into small globules which run down to the bottom of the jicara, the amalgamation may be considered finished or vendido. Howeven in some cases, a torta may show the signs in this respect of being finished, when in reality it is not; for this reason, the asciento, (metallic portion, or polvillos, remaining in the bottom of the jicara,) is also examined by extending it out over the jicara, and rubbing the small prills collected there with the finger. If these unite into running mercury, then there is no doubt about the operation being finished; but should they form dry amalgam, it is not so, and the operation must be continued until such is the case.

If the benefico (amalgamation) be low or cold, these signs are deceptive; consequently it is better to carry the torta rather hot than culd. At the present day the amalga mators, besides being guided by the above signs, also make an assay of the torta, by taking as average a sample as possible from the heap-washing it and collecting the whole of the mercury and amalgam, and having it assayed. By this means it can be easily calculated how much silver the whole of the mercury present ought to contain.

Treading; and turning over the Torta.-The operation
of treading is crried on almost exclusively hy mules or put in, and the operation continued in a similar manner till h.rses; and it is repeated every other day until the end of the whole torta has been washed.

The operation. One mule to every two montones* is about
the number employed. They are tied together four abreast, the number employed. They are tied together four abreast,
and blinded, and a man stands in the centre of the torta, holding a halter attached to the animals to guide and direct them through the mass. They first commence to tread at the edge or border of the torta, and very gradually worl into the centre, which ensures the whole mass being thoroughly trodden. The operation lasts from about 6 o'clock in the morning till about 1 or 2 in the afternoon. Besides this treading, the tortas are also turned over twice a week by men, by means of wooden shoyels. This is done on one of the days of the treading, and is commenced immediately on the removal of the animals from the tortas.
Animals are kept exclusively for the purpose of treading ; and very frequently, when they hecome old and die, a ball of amalgam, weighing at times many ounces, is found in their stomachs. This is easily acconuted for, for when they come from sutarta they often commence to lick themselves, probably for the salt which may adhere to their bodies, to which also a considerable quantity of very finely divided amalgam may have attached itself. This latter pasees into the stomach where, in the cour-e of years, it accumulates into a large piece. I hese pieces of amalgam are extremely heavy and solid, and vary in size from a small nut to a large egg. The animals, as soon as they have finished treading, are well washed in a large tank of water.
It is believed by many that no means of repaso or treading, except that of avimals, can be effectual, the reason assigned being that animals have the power of imparting or exciting a slight electrical action in the mass. This, however, has been entirely disproved by some amalgamators using machines in place of animals, and obtaining equaly good results. I have no doubt machines will, before long, be entirely used, instead of animals, for this purpose.

Washing-W here the amalgation is con-idered complete, some amalgamators, previous to washing the torta, add to it a portion of fresh mercury which is called bano-bath-for the purpose of collecting as much as possible the finely divided amalgam. However, others prefer using a larger quantity of mercury in the torta, from the commencement and adding no bano. The next thing to be done is to separate the amalgam from the vast amount of earthy matter with which it is associated, which is done as follows, in most of the well couducted works:-There are arranged in a shedlavadero or washing-house-three large round tanks, built close together in a circle, and communicating with each other by means of an oblong opening about 13 inches high and $81 / 2$ inches wide, commencing at about a foot from the bottom, and terminating at about the same distance, or a little more, from the top. These tanks-tinas-are built of stoneslabs, which have to be carefully cemented together, particularly those at the bottom, as much of the mercury might be lost. In the ceutre of each tank there is an upright shaft, carrying four cross arms, to which are attached long wooden teeth or stirrers, the whole being moved by one mule. The pinions which move the agitators of the second and third tank are a little larger than that attached to the first, so as to give them rather a slower motion. The tank into which the metallic mud is first thrown is called la tina cor-gadora-(the changing tank)-and the last one the descargadora or discharger. The torta, before being washed, is divided into a certain number of parts; each part, before being taken to the washing-room, being softened with water and a treading. A given portion-which is measured by large wooden bowls - of the lama is thrown into the first tank (cargadora,) water being allowed to run in and the machinery being made to revolve rapidly (the driving mule going at a gallop) at the time of changing, so as to break up and separate the whole mass as much as possible. Little by little the mule is made to go gradually slower and slower, till at last it only moves at a gentle walk : the mules being specially trained to the different paces required. From time to time the azoguero removes a portion of the slime under treatment, and washes it in a jicara:-from the amount of mercury remaining at the bottom-which at last ought to be a mere trace-it is judged when the water holding the earthy particles in suspension may be run off. This is done by opening a large plug near the bottom of the last tank-des-

Besides the fluid araalgam which remains at the bottom of the tina, there is also a quantity of the heavier portions of the ore-cabetilla-which is very rich in amalgam. This is removod in wooden bowls to a tank-pila apuradoraand thrown intu a large bowl called a batea apuradora; these vary from three to five feet in diameter, and float on the surface of the water. The person who manages this batea leans over the side of the pila, and with a hand on each side of the batea manages to give a peculiar shaking or rocking motion, at the same time constanily dipping up a small quantity of water, which he washes round the batea and then throws out, carrying with it a portion of the cabezilla.
This is repeated till there is collected from 20 to 30 lbs . of pella-amalgan--which is carritd to the azogueria (mercury house,) where it is deposited in a large stone trough. When the whole of the amalgam from a torta, or as much as the trough will conveniently hold, has been collected, a large quantity of pure mercury is added, and also a gallon or two of water. Two men next thrust their right arms into tho amalgam and stir it about in every possible direction for some time, for the purpose of cleaniug it as much as possible. Every now and again the matter which collects on the surface is removed, as is also the water, and the operation repeated time after time until the surface of the a malgam presents a a bright smooth surface, when it is very carefully wiped with a woolen cloth.
Pressing Amalgam or Pella.-When the amalgam has been properly cleaned as above, it is removed iuto a coneshaped bag-manga-made of sail-cloth with an outer coveriug of leather on the sides. This manga is hung from a beam, and the exce:s of mercury filters through the canvas bottom into a trough beneath it. The amalgam is allowed to remain in the bag, as a general rule, about two hours, when it is emptied out on to a table. It now presents the appearance of very fine sand ; and in this state is next beaten into iron moulds, and formed into bricks-bollos-of about three or four inches thick, and wedged-shaped, so that when six of them are placed together they form a circle, leaving a round hole in the centre for mercurial vapours to pass through in the next operation.
Burning.-The final operation is to expel the last traces of mercury from the silver, which is done under a large copper bell. Below the floor of the burning house there is a tank, through which a stream of cold water is constantly flowing. In this a round tripod is placed, on the top of which is laid a round iron plate, with a bole in the centre, about two inches in diameter. On the top of this is placed the bollos of silver, as high as the bell will admit, there being a space of about an inch left between the silver and the side of the bell. This is now lowered on to the top of the silver, the joints at the bottom being well secured. There is next put round the bell (leaving a space of about six or eight inches) mud bricks or adobes; the intermediate space being filled.with charcoal. This is now ignited, and as the heat increases the mercury begins to pass off intóa receptacle below. The fire is kept up for about 12 or 15 hours, when the whole is allowed to cool, and the bell removed. The silver is then found to have a beautiful honeycomb appearance, and is called plati pina. In this state it is removed in leather bags to the government melting and assay office to be run into bare.
It may be worthy of remark that silver produced by the patio amalgamation is purer than that produced by any other method. I have often seen it produced in Guanaxuato as fine as that specially prepared in London for check silver.
The duration of the amalgamation process is very various, and depends on many circumstances. About 25 days may be taken as the average time to work a torta.
Loss of Mercury. -There are two sources of loss of mercury in this operation. One is called the consumido, or the portion required to reduce the silver to the metallic state; in practice, weight for weight is allowed, the correct proportion being as 100 is to 108 . Every thing lont boyond this is called "perdida" It may be taken as a general rule that from 10 to 16 ounces of mercury are sacrificed for each mark (8 ounces) of silrer obtained.
[ Continurd on 6th page.]

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

## ASSFESMENTA J.evied.

Assessments upon Mining Stocks have been levied as follows :-
Garabaldi-Assessment of \$1 per share, levied March 2nd.
Sutrn-Assessment of \$1 per share, levied Feb. 23, payable March 23.

Silver Quartz Mill Co.-Assessment of 5 per cent. levied Feb. 23, payabte March 28.

Helvetia.-Assessment of 25 cts. per share, levied Feb. 17, payable March 10.
7ouave.-Assessment of $\$ 1$ levied Feb. 22, payable Mar. 20.

Rogera.-Assessmeat of \$5 per share levied Feb. 4, pay able Mar. 15.
Sam Wright-Assesment of 50 cts . per share levied Mar2, payahle immediately, delinquen sto lie sold A pr. 2.
Napoleon (cupper.) - Assessments of $\$ 3$ per share levied Mar. 3. payable in 30 days.
Gulden Are-Assessiment
Fel, 24, payable Mareh 26.
Washoe Gold \& Silver.-An assessment of 2 per cent. on capital stock was levied Feb. 16, payable Apr. 1.

Rhodes' Diggngs, - Assessment of 25 cts. per share levied F'eb. 26, payable Mar. 5.

Texas Co., at a Meeting held Feb. 14, levied an assessment of one dollar per share, payable to the Secretary in Virginia City.
Santa Rosa Co.-February as:essment of 20 cents per share now due and payable.
Madison Co-An assez:ment, two dollars per share, was levied Feb. 17, payable immediately, at Office, 600 Mer . chant St.
Union Co.-An assessment of one dollar per share was levied February 16, payable on or before March 25.
Pena Co.-An assessment of $\$ 3$ per share was levied Feb. 5, one half payable March 1, balance April 15.
Kossuth Oo., Devil's Gate District.-An assessment of 10 cts. per share was levied Feb. 7.

Constitution Company levied an assessment of 25 cts. per Feb. 11, payable immediately.
La Pla'a Oro Co. levied an assessment of five dollars per share, Feb. 9, payable at Office of the Secretary in Virginia City.
La Plata Co. levied an assesment of 50 cts. per share Feb. 2nd, payable at Office of the President.

Alamo Co. levied an assessment of 50 cts . per share, Feb. 11, payable on or before March 20 , at 115 Cal. Street San Francisco, or at office in Carson City.
Tucker Co. levied an assessment of 25 ets. per share, Feb. 11, payable immediately at 608 Merchant St.

Hawley Co. levied an assessment of one dollar per share, on Feb. 9, payable on or before March 12, to Superinteadent at the mine, or Secretary at Office.
Slate Range Co. levied an assessment of 50 cts . per share, Feb. 4, payable, March 15.
Moss G. \& S. M. Co.-An assessment of 50 cents per share was levied Jan. 27, payable at 428, Montgomery St., or to the Superintendent at the mine.
White Cloud G. \& S. M. Co. levied an assessment of 75 cents per share, Jan. 27, payable to the Secretary, at 428, Montgomery $\mathbf{~ z t}$.
El Dorado G. \& S. M. Oo.-An assessment of One Dollar per share was levied Jan. 23, payable to the Sec. or to the Supt.
Gaudaloupe S. M. Co.-An assessment af $\$ 30$ per share was levied, payable on or before March lst.

El Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levied Jan. 27, payable at office on or befora Feb. 27.
Polar Star G. \& S. M. Co. levied an assessment of 50 cents per share, February 4th, payable on or before the 4th of March, at the Uffice in this city or to the Superintendent at the mine in Aurora, (Esmeralda.)
Dios Padre G. \& S. M. Co. levied an assessment of 3 dollars per share, Jan. 31, payable in 30 days, alsu an assessmont of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.

Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.
Sonora Mining Co-An assessment of 25 cents per share was levied,Jan 23, payable imnediately.
Overman Mining Co.- 25 eents per foot, Jan. 29, payable within ten days.
Chs. Caney Miving Co.- 50 cents per share, Jan: 21, payable on or before Feb. 20th.

Sirras. M. C'u. An Assessment of² 1 was levied Jun. 22-payable immediately, at Uffice 555 Itission St.
Mount Thvid on Co.-An Assessment of iff cents per ilare was levied. Jan. 23, pmyable on or before March Ist, at Ofice 47 Montgomery Bluck.
Acirntic.-Fifty cents per =hare, p Fable at No. 4 Armory Itall, Sian Franciscu, or to the Superintendent at the Mine. IIattio G. \& S. M. Co.-Thirty cents per share, levied Jan. 31, payable at Office in San Franciseo, or at the Mine. Hale \& Norcso-s-Assessment of Ten Dollars per Ghare. levied Jan. 31 - payable at the Office in this city, or to Juhnsikn, at the Mine. on or before Feb. 25.
Mina l'rieta S. M. Co.-An Assessment of Five Dollars per, 'hare was levied. Jan. 31, payable on or b fore March 3th-at Office, cor. Montgomery \& Jackson Sits.
Recorder Mining ('o.-An Assessment of One Dollar per fuot was levied Jan. 19, payable half on or betore Feb. 18 and batance on or before March 20.

Hale \& Norcross S. M. C'o have levied an assessment of 8.5 per shave payable on or befure Jan. 2 (ith.
Martin White.-An assesement of 20 cls. a share was levied, Jan. 2.
Oriental G. \& S. M. Co.- $\Delta \mathrm{n}$ assessment of 50 cts per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue and C St., Virginia City.
Baltimore America Consolidated.-An assessment of 50 conts per share was levied, Jan. 5.
Savage.-An assessment of $\$ 35$ cents per share was leved. Jan. 7.
Hawley.-An assessment of $\$ 1,00$ per share was levied Feb. 9, payable March 12.
Cole S. M. Co.-An assessment of One Dollar per share was levied, Jun. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendeat at the mine, or to the Secretary, Rooms 7 and 8, Goverument House, San Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15-payable Feb. 18.
Lady Bryan.-An assessment of 70 cts. was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-Au assessment of $\$ 1$ was levied, Jan. I4.

## Company meetings.

Chs. Caney Co--Special meeting of stnckholders will be held on Wednesday, March 18, to consiaer the propriety of an increase of capital stock.
South Utah Co. will hold its annual meeting for election of Trustees, etc., at No. 608 Merchant St., March 20.
Nerada Co. will hold its annual meeting for electing Trustees, etc., at 608 Merchant St., March 20.
Annie Laurie Co. will hold its annual meeting for election of 'I'rustees, etc., March 19.

## ASSESSMENT SALES.

Sales of Stock for non-payment of assessments are advertised to bo sold as follows :-
Oriental Tunvel Co. will sell, on Saturday, Mar. 28.
Mars will institate proceedings against delinquents, Mar. 16 th.
Planet will institute proceedings against delinquents Mar. 16 th .
Meredith.-Anaual meeting of stockholders will be held Monday, Mar. 16, at 2 f. ar., at 712 Montgomery St.
Texas Co. will sell delinquent shares, on the 14 of March.
Meredith Co. will sell delinquent stock, March 2n.
Coso Co. will sell delinquent stock, March 18.
Moray Co. (V. City.-Suits for delinquent assessments will be commenced, March 14.
Michigao Co. (Gold Hill) will commence suits for delinquent assessments, March 16.
North Potoci Mining Co.-Sales deliquent stock will be made March 17.
Peytona G. \& S. Mining Co.-Sales of delinquent stock will be rade March 1st.
Cole Silver Mining Co.-Sales by Jerome Rice \& Oo., 327, Modtgomery St., San Franciścó, on the 25th of February.
Combination G. \& S. Mining Co.-Sale by E. S. Spear
Co., at 433 Galifornia St., on the l0th day of March next.
Lady Bryan G. \& S. M. Oo.--Shares of delinquent stockholders will be sold at auction for assessments, at No. 400 , Montgomery steet, on Jan. 27.

Desert Mining Co.-Shares of Jelinquent stocklinhler will be suhl at auction, for asecesbrants, at No. 400, Mont gomery street, Jan. 2\%.

## general. notiers.

Fellow Sacket.-Corpornte Deed $\mathrm{n} \cdot \mathrm{w}$ ready for signature at office of H. G. Maynard, Guld Hill, N. T.
Jenny Lind (Fsmeralda.)--Owners of ground in this Cot are requestes to call and sign deed of trust ut 608 Mercbans st.

Mount Hope Co.-Persons claiming stock are req̧rested to present title papers for examination till March 16.
U. S. Mining Co.-All pirsons claining stock are requested to present title papers for examination at Nos. 7 \& 8 Government House.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellinpton Co., standing in the name of J. B. Magec-also 20 feet, standing in name of W. Williams. (See Territorial linterprise.)
Ashland Co.-I. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the Muss C'u.'s ground, from which the Ashlaid Co. is forbidden to extract any valuable metals.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Tue Sweezy Co., Gold Hill, give notice that Baltic Company have wrougfuly claimed and worked their ground since July, 1860.
The Chimney Rock Co., lying next west of the Virginia Co, claims have notified the Hazel Green, Tingley and Btach \& Paxton Companys that they are tresspassing upon the Chimney Rock Co's ground.

## MINING AND SCIENTIFIC PRESS.

THE ONLY MINING, MECHANICL ANO SCIENTIFIC PAPER ON THIS CONTINENT.
THITR TEAR: VOLUME VI. $\rightarrow$ NEW SERIGS!
A uew polume of this extensively circulated paper commenced Sept. It,
1869. It is intended that erery number shall be replete with information 1862. It is intended that every number shall be replete with information
concerbing Miniug, scientific, Mechanical and Industrial pursuits, together
 for its columns.
This paper is devoted to the above purposes, together with the interests
of Science, Arts, Agriculture and Commerce, and any of Science, Arts, Agriculture and Commerce, and any general information that may be of interest to the reader : and it is the intention of tho proprie-
tor to spare no pains or expense in making it equal in interest and valuabio tor to spare no pains or expense in makin
information to any paper yet published.

## The Mining Interest

Will find it of great value, as it will contain all the news appertaining to Mining, the prices rund sales of Mining Stocks, new inventions of Machinery adapted to that purpose, and of every thang generally that may be of sorvice
to the Miner. to the Miner.

## The Inventor 1

Will find it an excellent medsum for the purpose of bringing his invention into notice, of ascertaining the progress of invention in this and other countries, and also of receiving any ioformation that may be necessary
in obtaining his patent, the proprietor having had great experience as a in obtaining his patent, the prepretor having had great experience as a Patent Agent, together with
ain Patents with cispatch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each uumber will contan sera eral original engravings of new manchines and inventions, together with y
large amount of reading matter appertaining thereto. We are constantle eral origimal engrangs matter appertaining thereto. We are constantle
large amount of reding mife
receiving the best scjentific journals from all quarters, frous which wr receiving the best scientific journals from all quarters, froms which wr
Elaall continue to extrnut whatovol may be of bunofit or intorest to ousliall cob
readers.

## To Chemists, Architects, Millurights and Farmers !

This journal will be invalunble. All new discoveries in Chemistry will be givel, and a large amount of information of great service to Architects and
Willwrights will be found in our columns. The Farmers and Planters will Millwrights will be found in our columns. The Farmers and Planters will
not be neglectod, engravings will be given of agricultural implements, and the farming interest generally will be amply discussed.
To mall subscribere.
To mall subscribers:-Four Dollars per annum.
Club Rates.
Flve Copies for Six Months, $\$ 8$.
Ten Coppies for Twelve Mon ths, $\$ 30$.
Fifteen Copies for Twelve Months, $\$ 44$.
Twenty Copies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$
Names can be sent in at diferent times and from diffrent Names can be sent in at different times and trom diffrent Post-offices
Specimen copies will be sent gratis to any part of the country. Specimen copies will be sent gratis to any part of thp country.

## EWER \& SMIMY, Pablishers,

Room 27, (formerly) O. S Court Building, Corner of Washington and $\mathrm{B}_{8}$
tery strəetn, San Francisco.
W. THOMAS, Plaining Mill, California street, facing the Mission R. R
. Depot. San Francisco.

TURNER, MARSH \& USGOOD, Successors to C. O. Turner \& Co., importers ,
D. J. B. BEERS-Dentst, 617 Clny strect. All operations

A CHAPTER TO MNVENTORS AND DISCOVERERS.
The whole community is bonefited by the p ro motion of tho useful arts, and, therefore, it is for the public good to bold out the promise of rewards to the inventors of new and useful arts and manufactures, who may first pat the public in possession of them. It is true that by suclu a grant as a patont makes-a monopuly for a time-every other person is restrained during the continuance of the monopoly from using the invention, evell if he makes a similar discovery himself. But at the time the grant is made, it is by no moans certain that the invention will be given to the public, or even made by any other person; and by the temporary suspension of their right, the people acquire the certainty of beng able to use the invention at the expiration of the monopoly. Utility to the publie is, in fact, the consideration of every grant for the sole use of an invention, and letters-patent containing such grants always state tho public good to be the motive in making the grant.
Hence, therefore, the total absence of utility to the public, in any invention, will at all times vitiate a grant of the sole use of it. But it will not be void on that ground if it were useful to the pub lic, although such utility may be very small.
But an invention may be of some uso to the publie, and yet be so trifling or frivolous, that the inconvenience arising from a grant of the sole use of it would not be adequately compensated by the benefit which the public would receive from it. The law, therefore, has deemed it right that mere discovery of any new manufacture shall not vest the sole right to use it in the inventor; but that to be entitled to such privilege he must obtain a grant from the Goveroment, who have the right of judging, not only whether the invention is likely to be of sufficient atility to warrant its being made a matter of public concerv, but also the duration of the privilege it merits.
There is reason to believe, though it is not positively known, that the practice of making grants of the sole use of inventions originated in England, and that it has thence beon copied more or less closely by other nations. It is a power derived from the common law of England; and this law has been modified by statute in modern times $b$. th in England and other countries. (Hindmarch on Patents, 3.)
No person can be the grantee of a privilege in an invention except the true and first inventor. To be capable of supporting such a grant tho patentee must be the person who has not only actually invented or imported the invention, but who has been the first to give it to the public.
In England it is held that the first importer of an invention from abroad may have a patent. (Edgeberry 7s. Stephen, 2 Salk., 447; Dav. P. C. 36.) This, however, is not the case in the United States. Here the inventor alone can get a patent. He is deemed the first inventor who first gives, or contracts by patent to give, a knowledge of it to the public. And the faet of first introducing an ixvention is prima facie proof of first invention. Altbough a patentee's claim to be the first inventor will not be defeated by the prior discovery of the same thing by one who kept it secret, yet it is otherwise if the invention was known to be used by the public at any time before the date of the patent.
If the inventor himself publishes a knowledge of it, the law deems that he thereby dedicates it to the public; and when once the publication has been made the act is irrovocable, and a patent can-
not be granted, or if granted will be useless. And if the public becomes possessed of a knowledge of it by any means whatever, no patent can be granted.

## WORKING SILVER ORES.

Our $n \cdot x$ issue will cor clude the valuable treatise on the Mexican Pateo process of working silver ores, which we have beenf for several weeks republishing from the "London Mining aud Smelting Magazine." The concluding portion, which will be given next week, is devoted chiefly to the phutosophy of the various manipulations, and will be found both valuable and interesting. Although this somewhat lengthy paper may be rather dry and uninteresting to the general reader, it will be found of much value and importance to all who are practically engaged in the difficult and intricate business of extracting silver from its ores. Notwithstanding, as intimated by the author of the treatise, much of the tedious Mexican hand and mule process may now be more advantageously and economically performed ly the aid of machinery, still the primitive modes of manipulation employed years ago, by the Mexicas miners, may be proftably stud ied even at the present day. There is little doubt, but that the general principles of the "Patio process," modified and accelerated by modera machinery, will prove the most economical and effectual method of working silver ores, which in the present condition of metallurgical and chemical knowledge, can be devised. We again commend to all interested a careful perusal of the treatise referred to. It will be found of as much value to the prospector, as to the "process man." It will be found almost invaluable to the prospector who would arrive at a practical knowledge of the val ue and character of his mine. It can be obtained in no other publication in this country, than the Solentife Press. We have extra files of the Press, from November last, which will be furnished at the regular sabscription price, and which contain mucl reliable matter, other thon the treatise upou working silver ores.

## THE DIOS PADRE MINING CO.

The mine belonging to the Dios Padre Colupany is situated in the Alamos District. State of Sonora, Mexico, and adjoins the celebrated mine of Almadre,, $\uparrow 5$ miles from the port of Santa Barbara. 'There is a good wagon road from the port to the mine.
This company was organized in November 1862, with a capital stock of $\$ 960,000$, divided into 1920 shares of $\$ 500$ each. The Company holds 2400 feet in length. The, ve in is a very heavy one being about 40 feet wide, and has been opened by a shaft to the depth of 220 feet, which is substantially walled from the bottom up. The mine is so situated that it may readily be drained by a tunnel to the depth of about 500 feet. A mill to be driven by a seventy horse power is now in process of construction. Ten stamps will be put up at tirst, to be subsequently increased to forty. Wheeler's amalganating pans and separators will be employed. The mill will be ready to start about the first of June next. Aoout $\$ 75,000$ have been expended in opening the same and erecting the machinery.
The Company's office is at No. 10, Armory Hall, in this city, and the present officers, are Ira P. Rankin, President; II. A. 'Talbert, Treasurer ; J. F. Nesmith, Secretary, and Ira P. Rankin, E. W. MeKinstry, T. A. I'aibert, C. H. Bradford, D. Maddux and F. Shackley, Trustees.
Stook Board in Sacramento. A Board of Stockbrukers has been formed in Sacramento. The meetings will be held daily from 2 to 3 P. M. at Court Honse Block. The terms of admission for the present are fixed at $\$ 25$ initiation fee and $\$ 3$ monthly dues.
Trifles Licit \&s Alr.-The winds which come over to us frcm America have at all times held in their loftiest currents, and carried over to us that remarkable dust which they sweep up from the summit of the Andes, or the arid pampas of South America. The dust has beeu deposited on the north const of Africa, on the Pyrences, and even on the snow clad flelds of our Alps; and in it, in our days : German natural philosopher has diseovered atoms of Amer can soil, of Brazilian rocks and thousands of the small light liodies of mieroceopic animals from the banks of the Oronoco.-Kohls Discovery of mals from
America.

## mining stocks in virginia city.

The stock excitement which, within the last two or three weeks has been gradually decliniug in San Francisco seems to have been transfered to Virginia City. The business of that place for the week ending with Saturday March 14, footed up at about $\$ 250,000$. Nearly evi ry class of stocks in that city are advancing, and many who have hitherto kept aloof from minng speculatiou, have caught the infection, and are converting all their surplus cash into "feet." The recent extraordinary successes of several of the first class mines, and the rapid advance of stocks geuerally, has beeu the exciting cause of this sudden activity. There appears to be no limit to the amount of capital, home and foreign, offered for investment. The namber of transfers during the week under review were very numerous, and embran ces a large variety of companies, some of whicls are seldom heard from in stoek transactions. Gold Hill stocks, of sec ond and third class, seem to have come in for an unusual share of attention. The various lawsuits in pendancy ap. prar to have caused some fluctuations in such stocks as were thereby affected, as favorable or uufavorable rumors were set on foot. The legal differences between the Burning Moscow and Madi-on seem to embrace a large share of attention, both there aud in this city. Several mammoth "cards" lave be a put forth by the friends of the contending parties, much to the pecuniary benefit of a leading San Francisco daily. Our compilation of "Remarks" for the week, which will be found in another column, is very full, and affords abundant evidence of a most unusual degree of activity.

## NEW AMALGAMATOR

A new gold and silver amalgamator, containing several new and important principles in its construction, may be seen at work every day, at the Miners' Foundry, on First St. This amalgamator has been patented by Mr. West, को practical Washoe silver ore worker. One of the prominent features in this pan, is the introduction of a copper steampipe around the inside circumference, which operates as a most admirable collector of the amalgam, nearly all of which is always found at every "clean up" adhering to this pipe. When the amalgam is once brought in contact with it no action of the machine can again separate it, bot if remains permantly fixed, until the pan is cleaned up. Other improvments have also been introduced in the shape and movements of the mullesr. We would advise quartz men to call and examine this pan for themselves. The results of the operation of this pan as compared with those now in general use are said to be greatly in its faver. It can be obtained at the Miners' Foundry.

List of Minina Companies.-We give, on the first page of the presat issue, a partial list of Incorporated Mining Companies, which have their offices of business in this city There will undoubtedly be found many inaccuracies in "the list, which we shall correct as fast as they may be discovered or whenever they may be handed in to us. Secretaries of Companies, and others interested, will confer a favor by sending to this office a memmorandum of any errors or omissions which they may notice. A number of adoitional companies will appear in the next issue. We shall continue the table from week to week until it is correct and complete.-after which time it will be published monthly and corrected, as changes and additions occur.

Tie "Oregon" for Mexicay Ports.-The steamship Oregon, Captain Wakeman, sailed for Mazatlan and Guaymas Monday. This ve-sel was completely loaded with marchinery and merchandise for those ports, and had to refuse large quantities of freight offered. The maehinery on board was ordered by mining companies which were cumposed almost exclusively of Americans. It is stated by parties in the boiler and machinery business that enough of those manufactures is already ordered to occupy all the room on board the Oregon which may be available for such purposes on her next trip. A large number of passengers went down who profess intending to engage in mining operations.

We are indebted to Hon. A. A. Satares for several valnable public documents, and for ot are favors.

GENERAL MLNING STOCK REPORT.
REPORT OF SALES
At tho San Franctico Mining Stock Board,
For the weck exaturg Jfareh 2?, 1883.

transactions in shares, for the webk.

## NEVADA STOCES

Ophir-12 at 2800
Chollar-8 at $\$ 40-8$ at $551-8$ at $575-8$ at $570-20$ at 620, b o. 30 ds ,
Savage-10 at $\$ 1225$, b. o. 30 ds. -15 at 1215 b. 0.30
Burning Moscow-6 at \$170
Sicrra Nevada-35 at $\$ 75$
Potosi-4 ar \$275-4 at 290-2 at 400-20 at 470-20 at $455,8.30$ days -40 at 500 s .30 days- 15 at 480 North Potosi-59 at $\$ 30$
Sacramento- 15 at $\$ 60-50$ at 60
Adriatic-125 at $\$ 0-20$ at $91 / 4-25$ at $81 / 2$
Burnside-30 at $\$ 50-10$ at $491 / 2-5$ a $53-10$ at $52-10$ 521 - 80 at $55-40$ at $57-10$ at $571 / 210$ at 56
Madison-10 at $\$ 23$
Cedar Fill Tunnel-43 at $\$ 81 / 4-50$ at 8 - 25 at $73 / 4$
Lucerue- 30 at 15-650 at 14-25 at 14
Nevadr-200 at $\$ 75-5$ at 65
Chs. Caney-30 at $\$ 60-20$ at 65
Lany Bryan-150 at $89-50$ at $81 / 4-37$ at $8-200$ at 8 b . 30 ds. -23 at $71 / 2-315$ at $6-273$ at $7-50$ at $71 / 8-100$ at $71 / 2$

Union, Gold Hill-29 at $\$ 25$
Reese River-170 at $\$ 7-100$ at $\$ 635$ at $63 / 4$
Golden Age-5 at \$15
Zouave-28 at \$25-10 at 23-40 at 22
Peytora- 30 at $\$ 40-10$ at $42-10$ at $421 / 2$
Governor Nye-110 at $\$ 11-50$ at $\mathrm{IL} 3 / 4-90$ at $111 / 4$
Augusta 50 at $\$ 11 / 4$
Recorder $21 / 2$ at $\$ 15$
Norton-15 at $\$ 25$

## ESMERALDA STOCKS, ETC.

Wide West-15 at $\$ 380-10$ at 385
Antelope-10 at $\$ 350-5$ at 340
Real Del Monte-20 at \$107-2 at 105-8 at 109
Utah-28 at $100-30$ at 1021/2-15 at $971 / 2$
Bamboo-10 at \$40-7 at 40.
Willow Springs-20 at $173 / 4$, steamer day- 133 at $171 / 2$
5 at $05-18$ at $19-15$ at $19-350$ at $17-10$ at $171 / 4-58$ at
16

Josephine at $\$ 24-3$ at $35-15$ at $32-10$ at $30-10$ at 31-2 at 29-inat $20-10$ at $23-6.5$ at $22-20$ at $26 \frac{1}{2}$ 20 at $26-33$ at $251:-25$ at 25

Dios Padre-2 at $\$ 65$
Silver Hill-10 at $35+$ b. o. 30 ds.-60 at $50-20$ at 52 10 at $5212-5$ at $551 \%-10$ at $55-15$ at 56
Great Western-20 at \$:
Pcide of Antelupe-25 at $\$ 31 / 2$
St. Louis-150 at \$21/2
COPPER STOCKS.
Napoleon-20 at \$24-45 at 25-8 at 23
VIRGINIA CIIY STOCK LIST.
[Corrected Weekly for tho Mining and Scientific Press.]


## WASHOE STOCK REMARKS.

[Compligo qhom the Dally Trbratorlal Eatraprise.]
There has been considerable life in low proay Fvicesing, March 0, 1863. number of transfers have been made. Harrison, Geller Ledge (the iveorporated yortion) has been inquired for at $\$ 8$ @ 10 , and filty or sixty feet for activity is doubtless basod on an inteat to force the Harrison into prom inence as a contestant for the Malison-Hoscow ledge. The Hazel Green has becmeate in at $\$ 4$ (a) $\$ 6$, with largo orders from below; 50 rect sold at $\$ 50 ; 25$ feet at $\$ 175$; and 30 feet at $\$ 5$. Birdsall is also in brisk demand at $\$ 20$, with little in markot; 19 feet sold to-day at $\$ 21$. Yellow Jacket is
firm at $\$ 350$ @ 400 : five fect sold at the latter figures. El Doradois saleablo at $\$ 55$ © 60 , with an upward tondency. For Uuivn (Gold Hill,) $\$ 35$ (a) 40 is offered, with littlo disposition no the part of holders to gell. Texas in selling at $\$ 7$ @ 750 ; 40 , feet suld at $\$ 7$. Grase Vulley, 25 feet sold at 950 . Zousve is in $\log$
San Francisco.
TobsDay Evenisg, March 10th, 1863.
There has been considerable animation iu mining shares to-day, and a There has been considerable animation in mining shares to-day, and a
number of beavy trausters are reported. Uuiou, Gold Bill, udvauced $\$ 15$ during the day; and $\$ 50$ (3) 55 in offered this evening. Probably 151 fee chauged hands at from $\$ 48$ to $\$ 55$. Bullion is in light demand, and 37 teet
were sold at $\$ 40$ @ 4250 . Hazel Green bas sold pretty extenoively at $\$ \$ 50$ were sold at $\$ 40$ © 4.250 . Hazel Green bas sold pretly extensively at $\$ 450$
@ 5 , and is still salealle at these figures, to fill orders from below. Belvi@ere has been inquired for to day, 100 feet guld at $\$ 20$. Beach \& Paxtun 18 alvancing steadily, It is saieablo at $\$ 175$ (3) 260 per foot. There has heen some iuquiry for Burnside al a shade below San Francisco quotitions, without sellers.

Wednespay Efentig, March 11th.
This has been a day of excitoments-not one of two, but of a dozen a least. Everything-positively everything-is advancing, and money is freely offered for investraent. Gold Eill stocks have been the especial rage although Virginia has nut beeu neglected. First, let us speak of Gold Hill. The Eureka has beon sought for at a healthy advance. In the morning it was sold at $\$ 25$, but it reached $\$ 40$ by $40^{\circ}$ clock P. Ir., at which figures it may be fuirly quotod. Nou less than 200 feet changed hands. Leon, a cilum which yesterday might have been bought at $\$ 4$ and 5 , is now saleable
at $\$ 20$ with as many buyors as sellers . The Leon is located in froat or Crown Point. The Overman has been in request all day at $\$ 12$ (a) 15, with abundance of buyers. Not less than 250 feet were sold. The Belcher has also been in lively demand, and is suleable at a decided advance. Litteleas
changed hauds, owiug to a disposition on the part of orners to hold. A changed hands, owlug to a disposition on the part of owners to bold,
very rich ledge has been struck near and in front of the Sinalon, and supposed to be a distinct vein. It assays largely, and has created something of an excitement. Twelve fect fold to-das at $\$ 75 \mathrm{per}$ foot. Yellow Jacket is quict. It is offered in small lots al $\$ 325$ (3) 350 without takers. We now tarn to $\nabla$ riginia. The Mercdith suldenly advanced to $\$ 40$ to daky, and the tendency is atill upward. The ledge in the lower tondel of the mine bas re has been marketahio at \$20, with a number of sales at these figures. Birulsalk is in brisk demand at 2250 (3) 25 ; 39 reet sold at 2250 . El Dorado
is kaleable st 89750 © 00, with liztle in market. This rterks is on the adance. Znirave in dullat sito. No tramenfern in this stuck are reported.
 weft of Virgmia, Has just beenaleared by the "Brets Company." The locality is new. An ansay of the cropplogn shows $\$ 4750$, priacipalify in silver. The bolders ure somewhat excited.

TUuradiy Einstrg, March 12 th .
There lhas been considerablo less feellug in stocks w-duy that y yesterday, although she shares dealt it are scarculy less buyyun. The certainty of a chultet whit the Belcher bus nomewhat conled the ardor of the ewners in the uewly develuped vera in front of the Nimnloa, at Gold Hilt, tut the price of the ground is stifly maintaibed, and noue has changed hatad to-day in the market. The Belcher and Overman are still iu demand-the former nt $\$ 26$ @30, and the latter at $\$ 16$, with mure buyers than sellers. The Sinaloa and Leon are in request-the Jatter at $\$ 325$, and Coion at $\$ 50$. El Dorado und Birdrall have hind somethiog of a run to day. El Derado is indemand at S75, with few sellors. Birdsall has adranced duriog the day to ${ }^{2} 55$, with abundance of buyers. Meredith may be quoted at $\$ 40$. Kenosha has been seling at $\$ 15$, and is lo demand, owing to furorable indications in the tunnel of the mine. Beach \& Puston is Raleuble at $\$: 00$, with little in market. Buruside is in request at $\$ 50$, with po sellors ; $\$ 70$ to 75 is acked. Huzol Green is dull at $\$ 5$, Zouave at $\$ 20$, Orientalat $\$ 7$ @ 8 , Texas at 87.

## Frimay Etening, Mareh 1ath.

Little has beon done in stocks to-day, in comparison with the early par of the weok. Over excitement, iuevitably reacts in prostration. This is a financial as well as a physical fuct. Trado is quiet in Gold Hall. The Bay State engrosses attentino, and the Overman und Beleher are in demand Massiton is being dealt in at $\$ 10$ (c) 12, and a snle of twent 5 - ife feet is reported at $\$ 15$. The Princess, adjniolog the Uaion, is foding buyers at figures not reported. In Virginia but few sales aro reported, and nonc of these at adrunced rates. For Burbside $\$ 50$ is offered without accommodation. Soutt: Burnside is saleable at $\$ 0$ to 37 . Birdsall is stimy mannesined at $\$ 35$ (a) 40 with little in market. A small lot of Beach \& Paxton sold to-day at $\$ 300$ pershare. This is first sale of this stock reported for some weeks. Tweoty-five feet of Rogers, Virginia district, sold at $\$ 40$. We quote El Doradoat $\$ 70$ @ 75 ; Moredith at $\$ 40$; Sucramento at $\$ 80$ @ 8250 ; Ketrosha, $\$ 15$; Osceolit, $\$ 10$; Sunta Rita, $\$ 35$ to 40 ; Oriontal, $\$ 6$; Hazel Green, $\$ 5$; Kuystove, $\$ 15$ (3) 20 ; Pride of Washoe, $\$ 15$ @ 20 ; Zounve, $\$ 19$ (1) 20 ; Belvidere, $\$ 20$; Fairviow, $\$ 15$ (a) 20 ; Bullion, $\$ 10$ (a) 45 ; Union, $\$ 50$; $\mathrm{Bu}-$ chauan, $\$ 100$; Yollow Jacket, $\$ 300$ © (a) 325.

## saturday Entanyg, March 14, 1863.

The business of the week foots up largely, stucks to the amount of not less than $\$ 250,000$ having changed hauds siace Monday. Burnside is in Ligh request at $\$ 50$, witl few sellers. South Burnside is saleable at $\$ 6$ (a)
7. There is something of a dematd for Jadison at a shade below san Fran7. There is something of a dematd for Madison at a shade below san Fran-
cisco quotatians, but tho rumor of a comproniso is not implicity credited, and it is deult in cautiously ; thirty-five feet sold at $\$ 28$ © 30. Birdsslt is in request at $\$ 37$ @ 40.25 feet sold at these figures. The possibality of a suit with the Durgan has somewhat deprossed the Oriental, and it is offered at figures beluw our last quotations. Bullion is quiet, with an upward tendeacy. Eighty feet suld yesterdny at $\$ 45$. Peytona is in demand at $\$ 30$ to 35, and Kenosha at about our last quotations. Buach \& Paxton is held fur a hoavy advauce. There is considerable action in Gold Hill stocks. Ray State cannot be bought for less than $\$ 100$ per foot. Leon is marketable at 20 (a) 25. Dunn is held at at $\$ 10$ 11. Branch Mint is in demand at $\$ 25$. Juiou is quoted at $\$ 50$. The following sales are reportod by Platt \& Low, of Gold Hill: 12 feet Fuller at $\$ 15 ; 5$ feet Eurokin at $\$ 30$; Huwkeye at $\$ 15$ (1) 20 ; 50 feet Overman at $\$ 20$; Massellon, $\$ 8$ (1) 12.

## ESNERALDA STOCK LIST

[Corrected Weekly for the Mining and Scientific Press.]


## transactions of the week.

Tunnel Stock's Incorporated

| 1-46 interest, Nevada, | vid | - - | \$850 00 |
| :---: | :---: | :---: | :---: |
| 50 shares Union, |  | - - | 3000 |
| 50 " Tucker, |  | ーー | 2000 |
| 50 " Johnson, |  | - - | 2000 |

Of sales during the weak, the following only were submitted for report,

Loss of Silver.-The loss of silver in this amalgamation process 18 considerable and varies much according to the class of ores operated upon, and particularly on the quality of the grinding, on which depends very much the success of the operation. From 10 to 14 per cent. is an average loss on docile ores; much of this, however, is lost in the form of amalgam from being carried away in fine particles by the water used in washing the tortas; but if more perfect washing vats were employed I have no doubt but the loss of silver could be much decreased.
[TO RE CONOLUDED NETT WEEK.]
*. monton 32 quintals.

## THE ESMERALDA MINES.

We condense the following from the Esmeralda Star of March 14th :
The Pond Ledge on Last Chance Hill, far exceeds anything yet struck in the District for richness in the precious metals. The slaft on this lode has reached a depth of 100 feet, and not a dollar of assesments has the company been compelled to levy in the working of it. Some of the rock will yield several thousands of dollars to the ton. 'The ledge is about niue feet thick and enlarges as it goes down; the rock is decomposed quartz. The lode is 120 ) feet in length, and no danger of conflicting with any other lode.
The mount Braley Company have just commenced running their tunnel, and we understand that the work will be continued day and night.
New Esmeralda is being prosecuted with energy. The Company owning it have gone through one ledge about fourteen feet in width, and will probably get through three more in about thirty days, when they will commence drifting and takiug out ore for crnshiug. The Company intend putting up a large mill this spring.
The Montreal Tumnel, which is located a short distant below the Heath quartz lode, has now reached a distance into the hill of one hundred and thirty feet. This tunnel was lo. cated as early as December I861, and will be one of the best paying enterprises iu the District, as it is ow ned by working men who are determined to push the work with vigor.
The Portland ledge, on Martinez Hill, is turning out excelleut rock; a shaft has been sunk 46 feet, and the ledge is now five feet wide. We learn also that the Polar Star is turning out splendid rock, but the owners, J. B. Herbert \& Co., have been compelled to suspend work, not being able to flnd work men to work even at the high rate of $\$ 12$ per foot in sinking the shaft.
The Golden Cross lode on Last Chance Hill, is being worked day and night, and the rock is hauled to Gregory's mill for crushing. This ledge is 1200 feet in length, and is one of the best ou the hill; the result of the crushing we have not yet learned-the rock is rich and the company owning it say there is no reason why the mill should not prove it to be so

Mrners Wanted.-Three hundred miners at- least are wanted at the present time, and there is or will be an increased demand for meu. Work has been compelled to be suspended on some of our best lodes, for lack of workmen. The mills are sadly in need of hands. $\$ 4.50$ per day is the wages of miners, and foar for men to work in the mills. The Last Chance Tuauel, being run into the hill of the same name has reached a distance in the hill of sixty feet, and is being run day and night. The Tunnel is admirably located for prospecting the hill and reaching the many blind lodes known to be runnang through the hill.
The General Hooker quartz lode, sitnated on Silver Hill, between the Antelope and Utah, is still yielding rich roek.
The upper shaft is now down to the depth of fititeen feet and the ledge about three feet in width. Ten dollars per ton has been offered for all the rock taken out by the company, delivered on the ground. The company, we are iuformed, are $f_{\text {ree from debt, and have never yet levied any assesments. }}$

There is a scheme to construct another tunnel under the Alps, the point being settled at the Simplon. The total length of the proposed tunacl will be about 4506 metres.

Mining Directory.-We have in course of preparation
a "Minging Directory," whereir. will appear, in tahular form, all the Incorporated Mining Companies, which have offices in this city, the names of their Secretaries, place of office, lo cation of mine, etc., etc. This table will be corrected monthly , and will prove of great convenience to the public. We had intended to have had it ready for this issue, but it is unavoidably postponed until next week.

## Dr. Van Zandt, <br> Consulting Physician and Surgeon OFFICE: <br> Corner of Washington and Sansome Streets.

The Great Success of this Century, as an Aid to Practical Medicine.

The Mystetious Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases
THAT THITS PRINCIPLE, successfilly applied to diseased states Dor the system, is to prove the great sought-for necessity, loog wanting by physicians to aid their medicines in overcoming orgamic and functiound
dernugements of the human body it a part of the great priuciple of vitality knowr as nervous lufluence and necessarily must have much to do in obviating diseased action.

## Oo Much Cannot Be Said

In its praise ; for it is bighly probable that in health there is an exact equipoise of health ene prokic principle; and should this secret and hidden equitrifed when it should be positively charged-is not the current broken, and is there not a war of forces going on in our system? This necds correcting aod in order that the tissues of t
agonts we must Grst restore and

## Awaken the Magnetic Lite Within Us.

The spinal and sympnthetic nerve systems. Belheving ar I do most firmly in this grear magnetic or electrical jutensity of the carth, with its influence
upob our bodies in health aud disease, I am led to take advulage of the upon our bodies in health aud disease, I am led to take advultage of the
pross, through which to awaken attontion to the subject, that good may pross, throug
come to all.

No Compromise with Discase.
Give the body strength, and nature will relieve hersolf. Purify the life
blood, render the sfonach, lirer, heart, kidncy and all the untural funcblood, render the stomach, lirer, heart, kidney and all the natural func-
thous active by ELECTRICAL excitation, aud at ouce the aged, the palsied, the nervous, the dispirited, the melanoholic, the dyspoctic and the invalid the nervous, the dispiriter, the $m$
revive under its benign uluence.

To the Ladies of Califormia.
Dr. Van Zandt's success whth complaints of women, both in family and office practice, is owing to his correct views of the origin of all their mal-
adies. Ladies can consult him with entire confidence, as he is vo speculator andies. Ladies can consut him with entire confidevce, as be is uo speculator upon bumau ille-but is proving limself che only member of the legitimate
profession in California who is really sticesstua in remnving those ills whinch
are the peculiar province of the sex. His bigh appreciation of their deti. are the peculiar province of the sex. His bigh appreciation of their deti-
cately alluned nervous orgaviin, together with their grent sympathetic cately altuned nervous organimm, together with their grent sympathetic
life, renders bim doubly able to assunge those sitent complainugs which
they bear so patiently and eo lony. No social disnuieturlo need longer afthey bear so patiently and eo long. No social disquieture need tonger at.
fict our home circles; for he can arouse the strickenu energies; restore the
wouted tontity of the body; a waken the melancletic and despondings ; ar-
 rest those drains which
dies which bave so long
Bafled the Skill of Physicians.

Develop appetite, life and animation, dispel wervous headache, sloking at
the stomnch, wandering paius, wasting away of strengtly; extreme debility the stomnch, wandering paius, wasting awny of strength; extreme debility end lifelessness, bectic cough, slceplesshess, uppleasant drams aud that
general depression of life's powers, which go to reuder her fre a misery aud death a boon. Dr. Van Zabdt, with bis new method of excuting the
Electro-Galvance curren, together with hin remedial mensures which are
adapted to the necessilies nf Califoruia, will assure you of a completo and adapted to the necessilies of California, will assure you of a complete an
radical recovery of all bodily nadmental hinfmities, and will restore you
to usefuluess, and spare you a blessing to your family and to society. All the Worla Over
Wherever disease exists, Whether special to the soil and elimate or com mon to all regious-epidemic or casual, a cute or chronje contaninus or non-
contagious- $1 t$ is as necessary to revtore he ELECTRO-GALVANIC equilibri-contagious-it is as necessary to restore lle ELECTRO-GALVANIG cquilibri-
um, especialy in California, as it is to give food to the starving. This state-
ment is based upou n series of facts axtending throus ment is based upou n series of facts extending through many yenrs, and
eerefed by hundreds of pationts; so that no principle of science, no rule of
xpe rience, no reanit of any woll known cause, rest
 tion of Electricity for the cure of all nervons states of the bonly, faulty di-
gestion, mental and playsical debility or prostration, coughs, asthma, waugestion, mental and plyysical debility or prostration, coughs, asthma, wau-
doring puins of a rbeumatic, gouty or mercurial character, and all forms of disease, the result of scrofulia or canhectic habit of body,
None Necd Despair of Relicf
If yon have uleers which will not heal-pains that caunot bo removed-
aclancloly which you cannot shake off-loss of power which you cannot melancluly whleh you cannotshake off-loss of power which you cannot re-
gain-d.pression of spirits which weigh you down-wakefulness that kuows
vo slecping-busivess thas lauguishes for want of onergy-a void which no uo slecping-busivess that lauguishes for want of energy -a void which no
society can fill-suspicion which no assurauce can allay-Gn to Dr. Van
Zavdt, for lis great success, and tho aafety with whicla he administers his
new method of Electrical excitation, together with his remedies, which are new method of Electrical excitation, together with his remedies, which are
adapted to the requitements of climate and constitution, will assure you a
radical removal of all bodily and mental infirmities, withia the scope of
science and man to remove.

The Eye and Eax Diseases.
It must not be forgotten by the eye and ear sufferers that Dr . Van Zandt has made these amiclinns an especial study, and that he is the ouly Sur-
geon en our State, who has a diploma for that branch of practice. Very geon en our State, whn has a diploma for that branch of practice. Very are cured by his elecro-galvanic battery-as amausoris, squnting, cataract, hoag and buzzing noises in the ears, gid iness, etc. All operations suc
roaring
cessfully done on those delicate organs of sense. cessfully dnue on those delicate organs of sense,
Office-Corner of Washiugton aud Sansome str
operations suc
W illlam Fell, Notary Public for Storey County, N. T. Commissioner o
Deeds for California Virgina City, N. T. PALMER, HANSCOM \& Co. Golden State Foundry, and Machine Works
(Formerly Sutter Iron Works.) First street near Market.
OROTEL, Fire-Pronf Brick Building, No. 49 K street, Bet. Second and
Ry Hoth, Sacramento City. Jas. Smith, Propt'r.
A. S. ROsENBAUM \& CO.-Tmporters of pure Havana Cigars, Tobace

## 2ntinimy and §cientific 4 Irs

The MINING AND SCEENTIFIC PREAS is publisbed at the Fiselin isco, Cal., at Fifry Cents per montil, or $\$ 4$ per anuum, in advauce.
C. W. M. SMITH and W. B. EWER,

Engravings, Electrotypes, etc.
Ws execute at this Omee Engravings and Iiustrations on wood, s
copper, steel, etc. Sterzotryna and Electroving, Designs of ever seription-Buildings, sketches of Towns, Machivery, Stamp Dien, Seal Plain or Colored Printiug. Job Work executed with dispatch at low
 vautagr of a Wire Circulation throughout the Pacific Coast in the best vertising Medjum to be found mithe country.

## To Printers.

An Intersest in one of the most nourashing and best paying Ne per Olfices in the mountains is nfered for sale on easy to:ms. A rari
portunity is hereby prescuted to any printer desirous of eatablishing l self in a good business in one of the healthiest, most thriving and del cul mountain towas iu the stato. For furtber information enquire an affice.

Subscribe.-Are you a miner and not a subseriber to Mining and Somentrite Preas? If so, you are an an oser of many times the price of a year's subscription, ticularly if you are engaged in quartz mining. The amount of practical information, important to miners mechanics, which is contained in a volume of the Press, $c$ not be bought from the shelves of any bookstore in the eo try for the price of several year's subscription. Do you e send a paper to the "Old Folks at Fome?" If so, and desire to send important information and valuable read matter, sou can find no paprr that will be read with so m eagerness by them, or one that will convey to them an account of the real industry of the country as the ng and Scimntific Press. We invite all to seud us names and fow dollars, or two dollar: for six months, become patrons of the only mining paper printed on the cific const. Those who receive a paper with this paragn nalked may understand that it is sent to them for exa approval as to Wurrant their subscribing for it at once. not our usual custom to receive a subscriber for less six months; but inasmuch as we are anxious to intro the paper where it is not now known, we will, for the $p$ ent, send the Press for three months even, on the recelp one dollar, in coin or staups. It is our belief that no will wish to discontue the paper after being a constant ir er of it for even that short period.

## SUGGESTIUNS ABOUT FOREIGN PATENTG

American inventors should bear in mind that, as a gent rule, any invention which is valuable to the patentee io country, is worth cqually as much in England and some n foreign countries. Four patents-American, English, Fre and Belgian-will secure an inventor exclusive monoply his discovery among one hundred millions of the most int gent people in the world.
The facilities of business and steam communication such, that patents can be obtained abroad aimost as easy at bome. The majority of all patents taken out by Am cans in foreign countries are obtained throngh the Mrs and Scientific Press Patent Agency. Haviog establi ed agencies at all the principal European seats of Gopi ment, we obtain patents in Great Britain, France, Belgi Prussia, Austria, Spain, ete., with promptness and patch.

Models are not required in any European country, but utmost care and experience is necesaary in the preparation the specifications aud drawiogse

When parties intend to tak out foreign patents, engl ings should not be published until the foreign applicat have been made.
Caution.- It has become $n$ somewhat common practice agents located in England to send out circuiars soliciting patronage of American inventors. We caution the la against heeding such applications as they may otherwise into the hands of irresponsible parties, and thus be defrat of their rights. It is much better for inventors to ent their cases to the care of a competent, reliable agen home.

While it is true of Most European conntries that the tem of examination is not so rigid as that practiced in country, jet it is vastly importont that inventors should $t$ their parers prepared only by the most competent solicit in order that they may slaod the test of a searching lega amination; as it is a common practice when a patentee $t$ a purchaser for bis invention, for the latter to cause such amination to be made before be will except the title.
It is also very unsafe to intrust a valuable invention to other than a solicitor of known integrity and ability. I tors should beware of speculators, whether in the guis trusted with valuable inventions.

LOWER CALIFORNLA Honization and Mrining Company. -


## SPLENDID ENTERPRISE.

 proposes to neud a reasel about the arat of March Ph and there beiag but a limitcd numbor of sthaNO TIME SHOLLD BE LOST BY COLONISTS.

## farmers AIncra and Mochanics,

 po familices aro purticularly minvited by the authoriof the Territory. The land selocted, in poine of ferof will, is not excelled on the Conthuent. The ellis unsurpassed in the world. Tho richest silvora known to extst in the Territory are fa the finmedl. ieninty and borduring on the agricultural lands of coonn
Bo Bear in mind that a slaro cesta, nt present, on 6. 200, which eutitlos the holder to tree tranaporta.
Hor self, famity, and articles of personal use and an 1 Blare in the land, the Comphany's Silver Mive, etc. frante enturprise, beng for the mucual beneat of fluers ouly.
. 11 uformation can so land, and sfineral and Cotiona unens speth, by applylug al the nthee of the Cunpa Xorth-wost cortuer of Clay and $\dot{\text { Bront }}$ Street.
board of trustees.


 f. R. C. AvREWS, surveyor.

LEANDER RANSOM,

## Civil Engineer

 AND
## SURVEYOR,

ving been connected with the public works
the State of Ohio for 20 years, and the public the State of Ohio for 20 years, and the pu
-veys of the State of Califorvia for 7 years. ALSO
STATE LOCATING AGENT.
And as such having the sale of
0,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Perms-Twenty por cont in cash and the balance
a creadicof several years. a credil of severa! years. of Montgomery and California streels.

IAYNES \& LAWTON mporizas and palursbre
CROOKERY, GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS,
Silver Plated and Britania Ware, ето., ETC., ETc.
NO. 516 SANSOME STREET, [CORNER OF merchant,]

## Attention! Attention! <br> 

The Occidental Hotel
Open for the Reception of Guests.

TIIS HOESE HAS ALE, THE MODERN IMPROVE-
 becu fited up with special reference to the conffort and
couvenience of the public generally, having a

News stand, CABINET FOR MINERALS

## A Branch Telegraph Offce,

Connectlug with all the liaes throughouthe country LEWIS LELAND \& CO, $\operatorname{san}$ Francisco, Jun. 1st, $1803 . \quad$ Proprietors.

## MUSIC! MUSIC !! MUSIC!!!

## A. K $\overline{O H} L E R$,

A. ROMAN \& Co.,

Book Establishment,
415 and 419 Montgomery atroet, SAN FRANCISCO.
Ordera reapectrily solicited and proniptly attended to.
A Treatise on Metallurgy, Comprising Minan and Gen
 eral and Particular Mothllurgical Operutions, Ete.
Eic. By Freturiek Ooveran,
Manul of Motallurgy, or A Practical Troatiso on the



novel ot sestallurgy, mure particularly of the precious
metals but hinclud ing such others as are eroployed
Metals: but includ ing such otucrs as are er
ia dutud practie.
dgot on the Chemistry and Mining of Copper.
Piggot on the Chemistry and Mining of Copper,
1'ractical Mineral Assa yiug aud lliniag. Overnaan.
Gald sining and Assaying by Phiips.
Miners' Compnnion ajud Guide, complifed by Silversmith. Assayers' 'uide; or Practicaldirectious to Assayers, MiPractical assuying smers.
Practical Assuy ing, by Michell.
ilver Ores nud siver
ilver Ores nur siver dines, by Pro. Blako.
Ure's Dictionary of Arts, Man We'sbach's Mechanios of Machineryry and End Mines. Nevillo's Hydraulic Formula Tables. Fresenias' Chemical Analysis.
Together wailes.
Together with many other wo
and similar lixes
Rom
A. ROMAN \& Co.
$41 \%$ \& 419 Montoomerv Street.
 his wifo imprudently approached with a lighted candle and the uil exploded. Mrf. Brewster's arms wero badly
burned, ns were also the huslund's hands. Huworer burned, ns were also the husl) hd's hands. Howorer he succeeded in mastering the tamen, und preventing
worse conscquences.-[Eveuing Bulletio, Aug. 4 .

## THEN THIS!

Comet Illumitating Oil !
Manufactured expressly for Stanford Bro.
Brand of ${ }^{\text {thils porviar }}$ Kerosene
Is warranted free from Camphene, Petroleum, or any
other explosive material, and us the
BEST FAMILY OIL IN THE MARKET. STANFORD BROTEERS,

Nns. 121, 123 and 125 Calite-nin street.
Sut $\mathfrak{W e a d t u t g}$ furt Erfinder.
Erfinber, meldje nidft mit ber englijdjen ©pradje belannt finb, fonten ifre Mitthungeneil in ber beutidyen Spradje madjen

Stizzenvon Erfinturgen mit furzen, Deut(idi) geidyriebenen Bejdyreibungen beliebe man zut aborefiten an.
J. SILVERSMITH, Exehango, Building, Roon 23.

## Gird's Budding Knife,

 Implements, are relerred to the above invontion. For
description and engraving Bee Muvisg $\triangle N D$ SCiENTIFC
PRess No 24, vol $v$. State, Terrritory and workshop rights for sale at rea
sonablo prices.
sonabio prices.
Address,
Publishers of Mining \& Scientific Press,
(Agent for Patentee)

| $\begin{array}{ll}\text { gep1-8m }\end{array} \quad \begin{array}{c}\text { (Agent for Patenteo) } \\ \text { San Francisco }\end{array}$ |
| :---: | :---: |

importer of every description of Musical Instruments \& Musical Merchandise SHEET MUSIO \& MTSICAL BOOKS. GENDINE ROMAN STRINGS, \&c.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstrung Pianos
Wherever theso mstrumemts are kunwn they
RANK AS THE FIRST AND BEST Inytone, delicacy of touch and durability. All the leading Musicians of the country have testified 10 their superiority. A. Kohler, Agent for the Pacinic Coast.

MELODEONS AND.HARMONIUMS from tee celebrated manupactory of MASON \& HAMLIN, Warranted superior to all otbers. Ner Send for a catalogue and Price lift. oc7 A. KOHLER, Agent.

## To Mill Owners.

WANTED, by a person fully eompetent to the position,
a aituution as MxNIN SUPIRANTENDENT in a Gold or Copper a aituution a MmXNQ SPPBRNTENDENT in a Gold or Copper
Mine. The Auplicant was engaged for about eight years Miue. The Applicant was engaged for about eight years
ns Superidtendent of Copper Mining Works in Cornwall,
 and has acted in the sume capncity in Goid suines in this
Slate or the past seven years. Ho has sad much expe-
riences, in Cornwall, us an Assayer, a Maclinest, rienee, in Cornwall, us an Assayer, a M Maclininest,
ra Draughisman, a Surveynor and an Assorter or Copper a Draughsman, a Surveynr and an Assorter of Copper
Ore. Ho can give amplo testimonies as to his capacity
Ot Apply at this Ofice.

## W, T, \& J, GARRATT,

 Gity Brass and Bell Founders Cor. First \& inarket sts., San Francisco$\mathrm{B}^{\text {AbBET METAL CASTINGS, FIRE ENGINES, FORCE }}$
B and Lift Puraps, Church, and Steamboat Bells, Tav.
 HYURAULC PIPS Aud NOZLES for MINNG PUR-
POSTS, Irou steam pipe furnished with fitings, $\&$.
COUPLING Coupling Joints or All sizes Manuf
ratt's Patent Improved Journal Metal.'

## SQUARZA'S PUNCH,

FIRST PREMIUM
at the sacramento agricultural state fatr

## FOR 1862.

ALSO; FHRST PREMUUM
t the San Franeisco Bay District Agricultural Fair, 1862

No. 44 Leidsdorfi street,
Opposito the What Cheer House, San Francisco.
LATEST IMPROVEMENT
in Ladies' Buckles.

 ments in BUCKLES, which surpass auy and all hereto
ore mado. Their simplicity, conmodinusuess, and botuty render them the must usoful as well as ornamen-
tal trimkels.
Ordors fro
Ordors from the country respectinlly solicited. For
particulars call at or address, FREDERIK REICEEL,


GREAT REDUCTION in prices.
STANFORD BROTHERS,
121, 123 and 125 California Street,
Keep the Largest Stock of all Kinds of
Lamp Stock
And will sell cheaper than any other
Lamps, Chimneys,
Wicks, Campaene,
Burning Fuutd,
Alcohol, Coal Oin,
Turpentine, Kerosene Oil,
COMET ILLUMICATING OIL,
Sperm OIf, Lard Oil,

## Machinery Oil,

Rape Seed Ont,
China Nut Oif,
Polar Oim,
Linseed Oil, Raw and Boiled,
Shark's Oil,

## Neat's Foot Oif,

Tanners Otr, Etc.
Our customers in particular, and the country trade gen-
erally, are requested to ascertain our prices before giterally, arf requested to ascer rain our prices before pur-
clasing from traveling agents, as wo will sell at less


## 50 lbs. MARINE AND

Fire-Proof Paint,
$\mathbf{M}^{\text {ANUFACTURED DY THE PACHITC MITALLURGICAL }}$
 or Bottnms of Ships, it is equal to a cont of Stoue , and quito equal to Copper, no worms will ever effect it, and cheaper than any other paint.

## DIRECTIONS :

For Decks of Ships, use two parta Mineral Paint, one part White I.ead, mixwill Lidseed OiL.
For Bottoms of Vessels, use one part ground sulphur throe pattomsineral Paiut, mix with Cool Tar aud apply it hot,
For snlo by all Sbip Chatalers and Tradermen, in boxes
of 50 tiss. each, or by the Pncifo Motallurgical Work. of 50 its . each, or by the Pacific Metallurgical Worka.

25 POUNDS FIRE-PROON PAINT.
When used on Roofs, Buildings, or Fencer, it is equal oc covering them with, a coat of Stone, beveng perfectiy Fire Proof, and coastiug less than any paint. DIRECTIONS:
HOUSE :-Mix thr ce parts Mineral Paint with one par white lead, thin with Linssed oil: if a lighter color for ROOF :-Five parts of Mineral Paint, one part white Lead; mix with Linseed oil. Put it thick on a tin Roog as one coat when properily appliedwill last three yeare.
works, North Beach; Office, 318 Callfornia st., Snu Francisco.

## WRIGHT'S PICKS,

JOHN WRIGETT, of Sacramento, has established himself in San Francibec for the manufacture of every description of 1 ICES, of the best material, at reduced prices. Prces EYks of the best iron furnished in any quan tity, at low rates Orders from the country promptly attended to. N. B.-None genuine unless stamped with my name. - JOHN WRIGET, 611 Markst street,

Opposite Battery, San Francisco.

## REMOVAL.

O FITCE OF THE PACLFIC METALHaving enlarged our Works at North Beach, we are Low enabled to reduce from 10 to 15 tous of Silver or Gold roek per day.
Golu and Silver
Gersmitha' sweeping, red Suiphuret Assagers', or SilCorsmither sweepiags reduced or purchased.
Coph, for shipmentigheyt market rates advanced in


## SPECLAL NOTICES.

OFFICE OF OPHIR SILVER MINING Co., San Franciseo, Mareli 10th 1863.-The regular Quirterly Meeliag of the stockbolders of this Compuny will be held on Wedsesday, the 18th instant.
marl6
thos. J. LaMB, Secretary.

Ofice of the San Francisco Gold and Silver Mining Company. San Fraucisco, March 16, 1863. The Adnual Jecting of the abore aamed Company will be held at the Company's Offle, No. 7 Moutgomery Block, on Monday, April 6, at I o'clock, P. M. Mar. 16-td. J. H. BLOOD, Secretary.

Office of the Tennesec Gold and Silver Mining Company, Lan Francisco, March, 16, 1863. -The Annual Meeting of the Stockholders of the above name Company will be held at the company's Omee No Montgomery Block, on Monday, April 6, 1803.
marl6-tu
J. H. BLOOD, Secretary.

## MYERS \& DAGGETT'S <br> Mining and Stock Exchange No. $233 /{ }^{3}$ B Street, Virgivia City, N.T. Mining Slocks ol All Kinds Bought \& Sold. Business conuected wilh Mining Stockz of evers descrip- tion promptly and confiaentially attended to. tion promptly and conficentially attended to *** Abstracts of Titles Furnished, Etc. <br> FREDERICK MANSELL, <br> MEGHANICAL \& ARCHITECTURAL DRAUGHTSMAN, <br> No. 4a, California street, corner of Leidsdorf. Drawings of Modess made for parties for patents a Washinglou or Lobulou. man 232 m

## Volcanic Smelting Furnace.

PERSONS DESTRTNG INFORBAATION AS TO THE USE Pa.d economican 1ropertites of this Furvace aud intending to mabee use of the same, wheu satis sied of its
superiority orer all other means of reducin or superiority orer all other meaps of reducing ores and
separating moetais frow the sulphurets, can obtain all separating moetais frow the sulphurets, can obtain all
needed explanation and ndvice it revard to the same, nud the terws of sale of rights to use the same, on application Col J. D. Stevenson or T. Ogg shaw, or by letter to the proprietress through the Post Ulifec of San Francisco. Drawwes may be seen at the ulfee of Col. J. . S. Sterenson
No. S14 Mercliant strect, or at the oflce of T.Ogg shaw No. 614 Merchant strect, or at the offce of T. Ogg shaw
in Branvan's Buildug, Montgomery street. The time required, lor reducuing ores by this Furnace
is from three toelght hours, and ine amount of fuel oaly is from three to elght hours, and ine ampunt of fucl ouly
one-tenth as much us is consummed by other proce: 5 ses. one-tenth as much as is consumed by other proveises.
The process of coodeosstion is applied to this Furnace The process of condensation is applied to this Furnace
Which
will save all those portions of precious metals which usually escape iu a voliatile form.
The atteution of all interested in the subject is requested to examine the important results obtained by this process. Parties winhing will be allowed to erect a trial Furnace ofa capscity for smelting one ton of ore or more, on
siguing an obligation to pay the usual fee for the right use it, should they coutinue to make use of the invention or a longer period than two months.
machin 16
$M R S$

New Style of Lady's Buckle.
W. BOHM, INVENTOR \& PATENTEE PHE SUBSCRIBER RAVING OBTAINED LETTERS PAT constructron of Tadies' fuckles improvement in the constructson of Ladies' Buckles, 18 nowready to fur-
nish the same in every variety of style. This buckle passesses several very inportaut of style. This buckle other in uso.
The invention having been carefully examined at the Patent 0ffice, has beelu adjudged to be a useful improre ment, and Letters Pateut Lave been granted for 17 yeara. ather buckels in
Usefulness, Strength and Appearance. The Public is respectfully iovited to call and exami The Public is respectfully idrited to call an
this Buckle at tho Jewelry Establishment of BRAVERMAN \& LETY, JOEEPH, SRD Francisco 607 Montgomery strecet, Sun Fraucisco. FLOBERG \& CONRAD,
118 I Street, Sacramento. Agents for the Patenter.
Every Buckle sold will be guaranteed as to its Strength
W. BUHSI, Patentee. and Durability

ГHEODOR KALLENBERG

## Maker of Models FOR INVENTORS.

M ACFMNS, BLATHEMATICAL, Optical and Philosoph 1 ical Instruments, Scales, Weights, etc.; Ste Stampa, Dies and Die Sinking, Embossingstamps.
Renairing of Machivery promptly attended to. No. 4 Sangome sircet, corner Market; 47.8m)

FULTON FOUNDRY \& IRON WORKS
HINCKLET \& CO. GLANUPACTURERS OF
Steam Engines, Quartz, Flodr and Sam Mruls; Cast Iron Fronts, for Butldings, Mining Pumps, and all kinds of Machinery, Ete., FIRST STREET,
Betwekn Markes and Mbsion............San Franctico.
*** All hinds of fron and Bras Casting furniehe sluort notice. Every style of Finssung to Irou when cast. Repairing of Machinery ucatly done.
PATtern MAEiNG in all its various forms. rices low D. B. Rinckler. Wм. E. Wortz. Wa. A. Fiem.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel
THE SIMPLE, COMPACT, STRENGAND effective mauner in which it is epplsed to aby beight of fall, ( 3 feet to 300 , ) and to any kind of machinery, will
Save in Transportation Material and Labor, from
25 to 50 per cent. of the entire cost of the Structure to which it is applied, and proportionally $y$ iocrease its value.
For full information from the rarentor, apply at the Miners' Foundry, trom 10 to 11 A. Mr., or address J. M. BETE. Miners' Foundry, San Francisco. Wh This Wheel is fully guarantezo. Jan19-tf

## Ageney For Patents,

THE UNDERSIGNED having been long established in 1 the Patent ageney Busuress, and baviug favorable arraugements for attending to the interests of insentors
the Patent Office in Washinglou, offer their services for the securing of Caveuts and Pateats also, will at-
ten to the sales of Patent Rights, and to all matters Counected with patented inves thas. WETHERED \& TIFFANY, WETHERED \& TIFFANY,
Ofice, 410 Mlontgomery street.
charies R. BOND, (Late City and County Assessor.)
REALESTATEAGENT,
No. 410 Montgomery street, San Francisco.
REAL FSTATE PCRCHAEED AND SOLD, AND LOANS NEGOTLATED

## WHEELER'S

Amalgamating and Separating Pans,
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The most important principle connected with the ope ration of these Pava is the separation of the trituratiag process from thit of extractiug tom amaigam from the ses from the passing off of the same in combination with the quicksilver, during the proces of trituration, and in cleaning up. By the introduction of the Separating Pau to follow the trituration this loss is entirely avoided. Working these machices there is do arpreciabletas.
quicksilver, and hence none of the precious metals.
Where these pans have been introrlvced and operated by the side of others on sands from the same rat, the of metals over its competitors, as well as a still larger percentage in the amount of work performed.
** These Pans man bescen in daily operation, at the Miner's Foundry, on First street in this city, where alf interested are invited to call and examine for themselvea no16-tf ZENAS WHRELER.

JULIUS SLLVERSMITH,

## Commissioner for Nevada Territory,

 office, in late state capitol,Corner of Rattery $\frac{\text { R }}{\text { Room }}$ Washington streets.,
$\mathrm{W}^{\mathrm{E}}$ WOULD RESTECTFCLLIT SOLICTT FROM THOEE ed Territory, a share of their patronage is all matters requiring the official action of a Commissioner-such as the drawing up of affidurits, acknowledgments, the tak-
ng of teatimoay, etc.
P. M. S. CO.

PACIFIC MAIL STMAMSHIP COMPANY' road with the steamers or the atlautic und Yacig
Steamstip Company at Aspiawall. Steamship Company at Aspiuwall.

## FOR PANAMA.

The following Steansaips will be dispatched in the month of February, 1863.
March 2lst, - - Stcamer Constitution. Will leave Folsnm Street Wharf, with Passengers and Treasure, for l'anama

AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY,
And connect. Via Panama Raliroad, at Aspinwall, with For Freight or passage, apply to
A. B. FORBES, Agent.

Miners' Foundry
MACHINE WORKS,
First St., Detween Hownrd solsom, SAN FRANCISCO.

Fivery descrippion of iron and brass machtIn uery, the Best and Mnst Econominal, manufacture patch at the Miners' Foundry and Machino Works, as: TEAM ENGINES AMD BOILERS, FLOUR, SAW A

QUAP1Z MML MACHINERY, MLNING PUMPS,
AMALGAMATURS, EETURTS, EIC., ETC.
Particular attention will be given to the manufnctur of Machinery in sections, desigued for places of diffeult
secess. Various models of Quartz Crusliers, Analgamators and Water Wheels-some in operation and on extibilion. Parties desiring in test their ores practically, smal
cost.

All parties desiring accurate and highly fibished draw ings and superior Mnchinery, at most reasonable rates HOWLAND, ANGEL \& EING.
San Francisco, February 23, 1868.
DONAHUE'S
Union Iron and Brass Foundry,
Corner of Ftrest and Mrsoory Straers, San francisco
The Firat Eatablished in the state.
M ANUFACTURE STHEAMENGINES Q SAW AND GRIST Mill Machinery, Boilers Quartz Stampers, Amalgamators, cric., elc., at reduce
prices. Have now the largest and best assortment
Gear and Machinery Patierns in the State, a list Which will be forwarded to bayone desiring it, free
cost.
PETER DONAFUE

## Holiday Presents!

WATCHES
DIAMONDS
JEWELRY AND
SILVER WARE

## BRAVERMAN \& LEVY'S;

 621 Wasnington Street,E CALL TRE ATTENTUN OF OUR FRIENDS AND the public in general to our well assorted stock of JEWELRY AND SILVER WARE, Of tho latest and Most Fushingable ntyles, which we have received by the last Steamer. Also,

FRENCH OLOCKS,
PRECIOUSD STONES,
Which we are selling. SET or CNEET, at the very 1.0 NEST PRICES

BRAVERMAN \& LFFT,
Dec 291 m
No, $6: 1$ Washington S'reet,
Facing Baguire's Opera Hous

W ANTED by an Intelligent and active young man a Siuation by which he may obtain an hones
velihood. He is about 16 years of age, and is a good euman. Enquire at this ofilice.

PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Strect, san Francisco, Furnish Castings and Machinery of all kinds

Genuine Whitr Iron Shoes and Dies, PALMER, HANSCOMB \& CO.

## To Quartz Miners.

r.nox's Improved

AMALGAMATING PAN,
PALMER'S PATEN' STEAM CEEST
Te ABOFE COMBINATION SECURES THE MOST any pracess how hnown. nomical m unner, while it is pecularly adapted to the eatchiug of flobting gold and silyer, known to be othe wise lost. Made exclusirely by
PALMER. HANSCOM \& $\mathrm{CO} .$,

$$
\begin{aligned}
& \text { Goloen State Iron Works, } \\
& \text { Nos. } 19 \text { \& } \boldsymbol{2 l} \text { First Street, San Francise }
\end{aligned}
$$

The public are informed that Letters Patent have hee grauted the undersigned upon Steam Chest Falee Rot
Coms for the inside of Amulgamating Pans or liubs, an are cautinned against making, buying, using or pelliug the same without his cunseut.

VULCAN IRON WORKS CO. P. TORQUET'..............MANAGER R. IVERS. C. R. STEIGER. S. AITKEN.

## Steam Engine Builders,

Boller Makexs, Iron Founders and Gem eral Englneers,
Nos. 137 \& 139 First Street;-...- San Francisco

Stenmbat Machisery built and repaired; alko Saim, Flour and Quartz Mills, Pumping and Mining Machinery
etc.,
etc.

Proprietors of Morse's Patent Fire Grates, Jorval, Fournzyton and other Turbine Water Wheele with latest improvements.

## DEETKEN'S

Chemical and Metallurgical Works;
On San Bruno Road, Islais Creek,
san fbaicicico.

## GOLD BEARENG SULPAERETS WOREED AT REAS Gonable rathas. All tee Gold Extracted by clem ical process. Yield of sulphurets from 50 to 60 per higher tham tho BEST AMALGAMATIUN ${ }^{1}$ ROCKN Apparatus for separating Sulphurets bet up by ox mill owners. No power nor clean water required for

 he purpose.LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET TRON

The only exclusively Euiler Making Establishment on the Pacifie Coast Owned and conducted by Practira Boiler Makers. All orders lor New Work, of Old Wor
to quality.
Old Stand, corner Bush and Marlzet Streets,
Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RISDON.

JAMES PHELAN,
(Laje J. \& M. Pimelan,
IMPORTER AND JOBBER,
Wines; Liquors, Etc, Etog Nos. 616 \& 618 Front strect,
Between Jackson and Pacific Streets,
Established 1849 .
All Goods Guaranteed. Orders Solicited. TERNS LIBERAL.

SQUARZA'S PUNCH. home manteactort.

No. 44 Lef didestorr st. ncar


## MRS. HATIL'S SMELTING FURNACE.

Wo are led to believe from a hrief paragraph in a late mber of the Virginia City Union, that the experimental rnace which it was recently announced was in course of ,nstruction, after Mrs. Hall's patent, has proved a success. - have ever hul much coufideuce in the invention and all not abandon the same until its failure shall be demonrated by a fair trial on a practical, working scale. The inciples combined in the construction of this furnace are idently correct in a scientific point of view, and most unrestionably comprise many and important improvements erany other furnace ever constructed. The principal ature of the invention is an enlarged and practical appliftion of the blow-pipe of the labratory to the most extenve reduction works which it may be desirable to construct. Another important principle, and one which we believe be entirely new, is the application of a cold water apparas for condensing and precipitating any volatilized metals, hich may be thrown upward by the intense heat and draft the furnace. Those of our readers who are familiar with e discussions which grew out of the supposed loss of gold volatilization at the Mint in this city, while that institu on wgs under the direction of Col. Harazthy, must be vare that there is liability to much loss from this cause. t that time numerous ingenious expedients were resorted to condense those fumes, but, apparently with very unsatfactory results. Mrs. Hall has most unquestionably suceded, perfectly, in accomplishing the object sought for, in fin, by numerous iugenious metallurgists and mechanics st and present, and that to by an arrangement, so simple hd cheap, that it is an especial wonder that no one should we thought of it before. A very correct description of is apparatus is given as follows, by a late correspondent of e Evening Journal of this city :-
It consists of a receiver, into which passes the flue of the rnace, and in which the flue terminates or is cut off, and thensurmounted by a conical cap, like a draft-cap of an dinary smoke pipe or chimney. From beneath this cap e fumes pass into the receiver, where they come in contact fith a heavy shower of cold water from a sieve in the top, sembling the shower sieve over a bath tub. An opening the centre of the sieve allows the draft to continue from le fue to the outer-air. Thus all the fumes are subjected
condensation without any loss of neat in the furnace ; inced, the beat is rather increased by being confined and rowa back by the cold water coming in upon the flue. hen the water in the receiver reaches a certain height, it carried off by a waste pipe, placed at a level below the atlet of the fiue.
In addition to the series of blow-pipes, by which a large mount of oxygen is forced into the furnace, jets of steam realso, from time to time introduced, which greatly aid in le oxydization of the sulphurets. An important chemical peret, also involved in this invention, is described by the riter in the Journal, already quoted, as follows:-
"Carbon and sulphur both combine readily with every nown substance; but their affinity with each other is closcthan with any others. When placed in contact in proper roportions, if heat be applied, carbon rapidly absorbs and mbines with sulphur in fumes, and they pass off together
Then the sulphurets of the metals are heated on a charcoa When the sulphurets of the metals are heated on a charcoa
apport, the separation and absorption of the sulphur pro
ceeds much faster than the oxidation of the metals, and consequently their reduction to a fluid state is secured in a period of time proportipned to the intensity and rapidity of the combustion. This is because both carbon and sulphur haves a stronger affinity with oxygen than the metals have and combine more readily with it.
It is plain, therefore, that in an intense heat produced by a strong blast of air unon charcoal, the facility of reduction of metals must he in direct ratio with the desulphurizing of the same by combination of the sulphur with the carbon and oxygen. This, it is claimed, is most thoroughly performed by the series of blow-pipes, jets of steam, and cold water show ers, which form a part of the construction of the Volcanic Smelting Furnace.
We understand that an experimental furnace, capable of smelting one ton of ore at a lime, is now in process of erection in this city, and will be ready for operation in a few days, so that those of our citizens who may be interested in the success of this promisingly important invention will soon have an opportunity of seeing it put to a practical test. If it succeeds, it will be of vast utility to the recently developed copper interests of the State, and by its simplicity and economy, render available millions of tons of ore, which can be of little or no value in this state, under any other known system of reduction.

## OUR MINING LIST.

We continne our Mining List to-day. During the week we have added fifty-four additional companies, making the present number, all told, two hundred and three Mining Companies, who have their principal offices of business in this city. Of this number 30 are in California (19 in the Slate Range District); 14 in the northern States of Mexico; 62 in Esmeralda and districs on the Eastern Slope to the south of that point; 84 in the region about Virginia City and the balance, 13 in number, in the Humboldt region.
There are numerous other companies, incorporated a San Francisco companies, but we have confined our table to those only who have regularly established offices in this city. No doubt we have omitted many, in our search, and we should be happy to add all such to the list as fast as they are handed in. Many errors in our last week's list have heen corrected, but doubtless others still exist which w shall correct as fast as they come to our knowledge. have lists also in preparation for such as have their offices in Virginia City and Esmeralda, which will appear in due time There are many important facts, statistical and otherwise connected with these companies, which we shall speak of in future issues of the Press.

The salvors of treasure from ibe Golden Gate, have recov ered between $\$ 600,000$ and $\$ 700,000$. They offer to compro mise with all shippers at 50 per cent. Some houses have al ready settled at that rate.

Mirrors of the World. - The proprietors of Wolfstenberg's celebrated Panorama will exhibit the same at the Eureka Theatre, in this city, for "this week only," commencing this Evening. This is one of the finest of this class of paintings, which has ever been produced, and is well worth

## MINING CORRESPONDENCE.

## Grass Valley, March 25, 1863.

Frifnd Ewer:-Our town, the scene of so many excitements in quartz. is again all alive with "copper." Every one is wild with the copper fever, prospecting being the orler of the day. The cause I it being what certainly seems to be a genuine bona fide Copper Mire, on Rouse's Ranch, about two miles below the town. This ledge has been known to exist for some years, but having been tried for gold and failed, it gradually fell into discredit. Sometime during last November or December, Mr. John Armstrong, formerly a well kuown resident of this place, but who had made San Francisco his residence for some time, visited his old home, and quietly located the ledge as the Excelsior Sulphuret Mine and I suppose took specimens of the rock with him below, at any rate, a short time after he left here, Mr. E. Maslin (late District Atty. of this Co.) was seen to doff the Lawyer's stately suit of black, and put on the grey shirt and other toggery of "yr honest miner," and pitch into the "Sulphuret Mine" in decided earnest. It soon leaked out that copper had been discovered, and then the rush began, the country around about was staked off and claimed all over almost even

## "Down to Eartlu’s profound

Aud up to Heaven."
And I will venture to say that to-day there is not a man in Grass Valley, who has cot somewhere about his clothes a piece of rock that he firmly imagines contains copper. I see from the papers that a company has been formed and incorporated in your city, kuown as the Nevada Copper Mining Co., and it is believed here that men of wealth and influence are connected with it. Centain it is that should this discovtry prove what it gives every indication of being-a genaine Mine-it will add to the already abundant mineral wealth of our town, enough to make this "Valley of Grass" the banner town of the interior and, to those who quietly yet energetically have discovered and developed this new phase of our mineral life, will be due the thanks of our community. I will keep you posted-shall probably visit the mine, to-morrow.

Miner.
Concluden.-In to-day's issue we conclude the valuable and interesting treatise upon the working of silver ores, by James Napier, Esq. Mr. N., from a long residence as Chemist and Assayer at the Mexican Mint, in one of the the most extensive silver mining localities in that country, has abundantly prepared himself to write understandingly and fully with regard to the method and manner of working silver ores in that country, and the philosoplyy of the same. T'hese numbers, to persons engaged in working silver ores, must prove most acceptable and valuable, while the general reader, will duubtless be pleased that the series is concluded, and more room afforded, in our columns, for other matters.

Copper has been found at Queen Charlott's Island, near Victoria. Coal of a very superior quality has also been found within three miles of Port Angelos.

## MINING AND SCIENTIFIC PRESS

combine with mercury. If, for instance, metallic copper, in the form of precipitate, with a little salt as an exciting agent, be added to an ore containing sulphide of silver, metallic silver and sulphide of copper will be the result. This result will be more or less perfect, according to the conditions under which the experiment is made. If the ingredients be ground in a mortar, the result will be rapid; but if mercury be now put with this, it will form analgam but reiy slowly indeed, unless heavy friction be used. On the other hand, native silver, and metallic silver, formed by precipitation from the sulphate by copper, or by many other means, will ammlgamate with greater ease; so that the silver in Dr. Uslur's experiments might actually have bean reduced to the metallic state. but would not amalgamate in the torta; and such probably was the case. I have repeated these very experiments of Dr. Uslar or a smaller scale; that is to say, 1 took the usual proportions of salt and sulphate of copper, and mixed with them moderately rich silver ore. After these had remained in contact for about twelve hnurs-part of the time exposed to a tropical sun-the experiment was divided into two portions; to one was added a small slip of very bright metallic copper, and to the other a piece of polished iron. Almost the moment the copper was added, it became coated with a white precipitate of silver; silver was also precipitated on the iron, but not until it had been in contact for some time. Again, if we take into consideration the small proportion of metallic silver there is in the torta, compared to the enormous amount of earthy matters present ; and also the small amount of mercury, and that the two metals would have to be brought into actual contact before they could combine; it would, I think, have been rather strange had amalgam been formed. It is not enough that silver and mercury be brought iu contact with each other to make them combine; but, in many cases, it requires heavy friction; and in a thick pasty mass like a torta the difficulties would be much increased. When the chloride of silver is in solution in common salt, then we have a chemical action going on by which we can better understand why amalgamation takes place.

The next argument used against the formation of chloride of silver is founded on the fact, that it had fanled to be detected in tortas which had been left in the patio for months, without mercury I presume. The following experiments made by myself myself may entirely account for this

The first experiment was on pure sulphide of silver. To this was added a small portion of bi-chloride of copper and salt, and the result was an abundant formation of chloride of silver.

The next experiment was made with common silver ore of moderate richness, which, besides sulphide of silver, contained also sulphides of iron. To this were added the usual quantities of sulphate of copper and salt, and the result was, that chloride of silver was formed after a few hours' standing ; but, at the end of three days, I was surprised to find that the whole of the chloride of silver had again disappeared. The experiment was prolonged for three weeks, and tested daily for cbloride of silver, thinking it might reappear; but it did not. This experiment was repeated at various times, and with different ores; and in every case chloride of silver was formed, but in some instances only did it disappear on standing. I may here observe that the chloride of silver held in solution at one time in a torta must necessarily be very small, from the fact that the quantity of salt used is only sufficient to hold a very small quantity in solution at once ; so that in making such experiments as the above-unless the ores used be very rich, and a large excess of salt be added-one must not expect to obtain an abundant formation of chloride, but rest contented with finding a moderate proportion, as the process is one which goes on but very slowly indeed.

It became a question why the chloride of silver, when once formed, disappeared again? This I tried to discover by numerous experiments on a small scale. In tortas, where large quantities of sulphide of iron, particularly of the white variety, was present, the chloride of silver was decomposed, and chloride of iron formed; the silver being again probably converted into sulphide. [With artificial sulphide of iron, chloride of silver is very rapidly decomposed; particularly when heated.] Sulphides of copper had no action on chloride of silver. Where galens was present, the chloride of silver was very rapidly decomposed, and chloride of lead formed. Blende had a similar effect ; and this may
explain why in Zacctecas, and some other districts where the ores cuntain blende, and sometimes small quantities of
galena, they are obliged to use an excess of magistral for the purpose of first decomposing these sulphides. We are al so aware that if sulphate of copper and salt be added to galena and blend, that chlorides of lead or zinc would be formed ; and there are doubtless, many local actions taking place in tortas, which may vary very much with the nature of the ores operated upon. I have witheld many experiments made on a small scale on the subject; believing that it is only by close attention to the many various changes which take place in the tortas themselves, that a true knowledge of the theory of the patio amalgamation can be arrived at, and that laboratory experiments often only tend to lead us astray, unless corroborated by actual results on a large scale.

To prove furthur the formation of chloride of silver in the operation, I have obtained numerous samples of torlas in actual operation, after the salt and magistral had been added, but before the addition of the mercury. In every case did I find chloride of oilver; and even when the mercury was present, in tortas far advanced, ehloride of silver was always found. My general method of testing was to digest the sample for a short time in a solution of hot common salt; then filter, and add to the filtrate a clean plece of copper, upon which the silver was precipitated. In some cases the sample was digested in weak ammonia, filtered, and an acid added to the filtrate, which precipitated the chloride of silver.
From what has been said, it is very evident that, at the commencement of the amalgamation, there must be a considtrable quantity of free chloride of copper present; because the whole of the ingredients necessary to carry on the operation to the end are added at once, and yet the torta does not become hot-provided of course the ingredients have not been added in excess. How is this? The only answer 1 can give is, that the patio amalgamation is founded on the affinity existing between sulphide of silver and chloride of cspper, and that if the torta become hot at the commencement, when an excess of raterials were not added, then we would have no such process as the patio.
When a torta is very hot, amalgamation does not go on nearly so rapidly as at other times. This may be owing to the mercury becoming covered with a coating of chloride, thus preventing the chloride of silver from being reduced. Now, according to Mr. Bowring's theory, that the first action which takes place is the conversion of part of the mercary into chloride, the torta ought to become hot at the very commencement, whereas such is not the case ; and to avoid loss of mercury in this way, Mr. Bowring proposes, and has patented, the use of protochloride of copper instead of magistral.
*Mr. Louckner, whom I have before had occasion to mention in these pages, was a gentleman of the highest scientific attainmenrs, and had studied closely, for upward of thirty jears, every thing cunnected with the reduction of silver
ores in Mexicco. He had also written what, I have no besores in Mexicco. He had also written what, I have no bes-
itation in saying, would have been the most valuable treatise which has yet appeared on the subject, but which, I regret to state, is lost to the world. In 1855, Mr. Louckner Was travelling from Angangueo to Guanaruato, having with him his MSS. At a certain part of the road he was attacked by robbers; and, on attempting to defend himself,
his pistols missed fire. He was then overpowered, robhed his pistols missed fire. He was then overpowered, robbed,
severely wounded, and left on the highway fordead. When severely wounded, and left on the highway for dead. When
he recovered himself, he found his papers and MSS. torn and scattered to the winds. Mr. Louckner died four and a half years afterward in Guanaxuato.
Lecture.-We had the pleasure of hearing Mr. Legh Harnett's auddress before the Bible Temperance Society on Sunday week, on "The Power and Genius of America." The address was not only an able effort, but a very grateful and gratifying tribute to our Country coming, as it did, from an educated Englishman. His sentiments he claims are but the sentiments of the great mass of his countrymen. If such be the case we may rest assured that the heart of England is with us in this hour of peril. The address occupied an hour in delivering, during which the speaker sustained himself with great ability, and showed himself thorougbly acquainted with the present condition and future destiny of America. Mr. H. is an unflinching Union man, and a firm believer in Manifest Destiny. Would to God there were

## Minimand Scientific 3 ress.

The sHNING AND SCIENTIFIC PREs is publishod at the Excbnage
Buildiag, Room 27 , corner of Batery nud Washagton strets Sau FranBuildiag, Room 27 , corner of Battory nud Whashlugton streets siu Fra


## To Printers.

Ay Intarast in one of the most flourshing and best pnying Newrpa per Offces in the nountains is offered for sale no easy te rras. A rare op
portunity is hereby preseuted toany priuter denirous of eatablishing himself in a good business in one of the bealthiest, most thriving and delight. fol mountain towns in the state. For further information enquire at this offec.

Subserrbe.-Are you a miner and not a subscriber to the Mining and Scientiric Press? If so, you are an annual loser of many times the price of a year's subscription, pare ticularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechauics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and yow desire to send important information and valuable reading matter, you can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the MiNing and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examiuation, and with the hope that it may so for meet with theiri approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the pres. ent, enend the Prisss for three months even, on the recelpt of. one dollar, in coin or stawps. It is our belief that no one will wish to discontue the paper after being a constant reader of it for even that short period.

## SUGGESTIONS ABOUT FOREIGN PATENTS.

A merican inventors should bear in mind that, as a generalh rule, any invention which is valuable to the patentee in this foreign countries, Four patents-American, Eaglish,French and Belgian-will secure an inventor exclusive monoply to bis discovery among one hundred milions of the most intelli gent people in the world.

The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy a at bome. The majority of all patents taken out by Ameri cans in foreign countries are obtained through the Minine and Scientific Press Patent Agency. Having estabhish ed agencies at all the principal European seats of Govern ment, we obtain patents in Great Britain, France, Belgiunin Prussia, Austria, Spain, etc., with promptness and dis patch.

Models are not required in any European country, but thi utmost care and experience is nec
When parties indend to taks out ings should not be published until the foreign applicatiou have been made.
Caution. - It has become a somewhat common practice fo agents located in England to send out circulars soliciting th patronage of American inventors. We caution the latte against heeding such applications as they maj otherwise fal into the hands of irresponsible parties, and thus be defraude of their rights. It is much better for inventors to entrus their cases to the care of a competent, reliable agent a home.
While it is true of Most European countries that the syi tem of examination is notso rigid as that practiced in thi country, yet it is vastly important that inventors should hav their papers prepared only by the most competent solicitor in order that they may stand the test of a seurching legalez amination; as it is a common practice when a patentee firc purchuser for his invention, for the latter to cause such ei amination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to an other than a solicitor of known integrity and ability. Invel tors should beware of speculators, whether in the guise: patent agents or patent brokers, as they cannot ordinarily । irusted with valuable inventions.

## MINING AND SCIENTIFIC PRESS.

## SAN FRANCISCO MINING NOTICES.

Assessments libtied.
Assessmonts upon Miniag stocks have been levied as follows :-

Farabahli--Assessment of $\$ 1$ per share, levied March 20d.
Sutro.-Assessment of $\$ 1$ per share, levied Feb. 23, payable March 23.

Silver Quarts Mill Co--Assessment of 5 per cent. levied Feb. 23, payable March 28 .
Indvetia. - Assessment of 25 cts. per share, levied Feb. 17, payable March 10.

Zouave.-Assessment of $\$ 1$ levied Feb. 22, payable Mar. 22

Rogers.-Assessment of $\$ 5$ per share levied Feb. 4, pay-
able Mar. 15. able Mar. 15.
Sam Wright.-Assesment of 50 cts. per share levied Mar2, pay̧able immediately, delimquen's to be sold Apr. 2.
Nupuleon (copper.) - A ssessments of $\$ 3$ per share levied Mar. 3, payable in 30 days.
Golden Age.-Assessment of one dollar per share levied Feb. 24, payable Mareh 26.

Washoe (fold \& Silver.-An assossment of 2 per cent.
n capital stock was levied Feb. 16, payable Apr. 1.
Rholes' Digming. - Assessment of 25 cts. per share levied Feb. 26, payable Mar. 5.
Texas Co., at a Meeting held Fob. 14, levied an assessment of one dullar per share, payable to the Secretary in Virginia City.
Santa Roza Co.-February assessment of 20 cents per share now due and payable.
Madison Co.-An asses:ment, two dollars per share, was levied Feb. 17, payable immedıately, at Office, 600 Mer chant St.
Union Co.-An assessment of one dollar per share was levied February 16 , payable on or before March 25.
Pena Co.-An assessment of $\$ 3$ per share was levied
Feb. 5, one half payable March 1, balance April 15.
Kossuth Co., Devil's Gate District.-An assessment of 10
ts. per share was levied Feb. 7.
Constitution Company levied an assessment of 25 cts. per
eb. 11, payable immediately.
La Plara Oro Co. levied an assessment of five dollhrs per share, Feb. 9, payable at Office of the Secretary io Virginia City.
La Plata Co. levied an assesment of 50 cts. per share
Fub. 2ud, payable at Office of the President. Tub. 2ud, payable at Office of the President.
Alamo Co. levied an assessment of 50 cts. per share, Feb. 11, payable on or before March 20, at 115 Cal. Street San Francisco, or at office in Carson City.
Tucker Co. levied an assessment of 25 cts. per share, Feb. 11, payable immediately at 608 Merchant St.
Hawley Co. Ievied an assessment of one dollar per share, ou Fel. 9, payable on or before March 12, to Superintendan at the mine, or Secretary at Office.
Slate Range Co. levied an assessment of 50 cts. per share, Feb. 4, payable, March 15.
Moss G. \& S. M. Co.-An assessment of 50 cents per
hare was levied Jan. 27, payable at 428, Montgomery St., or to the Superintendent at the mine.
White Cloud G. \& S. M. Co. levied an assessment of 55 cents per share, Jan. 27, payable to the Secretary, at 228, Montgomery śt.
El Dorado G. \& S. M. Co.-An assessment of One Dolar per share was levied Jan. 23, payable to the Sec. or to the Supt.
Gaudaloupe S. M. Co.-An assessment af $\$ 30$ per share was levied, payable on or before March 1st.
El Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levied Jan. 27, payable at office on or befora Feb. 27 .
Polar Star G. \& S. M. Co. levied an assessment of cents per share, February 4th, payable on F before the 4th of March, at the Office in this city or the Superintendent at the mine in Aurora, (Esmeralda.)
Dios Padre G. \& S. M. Co. levied an assessment of 3 dollars per share, Jan. 31, payable in 30 days, alsu an assessment of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.
Beckwith G. \& S. Mining Oo.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.
Sonora Mining Oo.-An assessment of 25 cents per share was levied,Jan 23, payable imnediately.
Overman Mining Co.-25 eents per foot, Jan. 29, payable within ten days.
Chs. Caney Mining Co.-50 cents per share, Jan. 21, payable en or before Fel. 20th.

Sierra S. M. Co. An Assessment of 21.5 was levied Jan. 22-payable immedintely, ut Ollice 575 Ĩlissiun St.
Mount Ihavid-on Co.-An Assessment of 50 cents per Share was levied. Jan. 2\%, payable on or before March lat, ut Olfice 47 Montgomery Block.
Air atic.-Fifty cents per share, payable nt No. 4 Armory Hull, sian Francisco, or to the superintendent at the Mine. Hattio G. dz S. M. Co.-Thirty cents per share, levied Jan. 31, payable at Uffice in Sian Franciscu, or at the Mine.
Hale \& Noreso:8-Assessment of Ten Dollars per Share, levied Jan. 31-payable at the Office in this city, or to John Skap, at the Mine, on or before Feb. 25.
Mina Prieta S. M. Co.-An Assessment of Five Dollars per Share was levied, Jan. 31, payable on or before March 5 th-at Office, cor. Montgomery \& Jackson Sts.
Recorder Mining Co.-An Assessment of One Dollar per foot was levied Jan. 19, payable half on or before Feb. 18, and balunce on or before Marcla 20.
Hale \& Norcross s. M. Co, have levied an assessment of $\$ 5$ per share payable on or befure Jan. 26 th.
Martin White.-Au assesement of 20 cts. a share was levied, Jan. 2.
Oriental G. \& S. M. Co.-An assessment of 50 ets. per share was levied. Jan. 14. payable at Office, cor. Sutton Apeque ars C St., Virginia City.
Baltimore America Consolidated.-Anassessment of 50 cents per share was levied, Jan. 5.
Savage-An assessment of $\$ 35$ cents per share was levied, Jan. 7.
Hawley.-An assessment of $\$ 1,00$ per share was levied Feb. 9, payable March 12.
Cole S. M. Co-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds cts. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms is and 8, Government House, San Francisca.
Sierra Nevada S. M. Co. levied an assessiment of $\$ 15$ per share, Jan. 15-payable Feb. 18.
Lady Bryan.-An assessment of 70 cts. was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.

## assessment bales.

Sales of Stock for non-payment of assessments are advertised to bo sold as follows:-
Oriental Tunnel Ca. will sell, on Saturday, Mar. 28.
Mars will institute proceedings against delinquents, Mar 16 th.
Planet will institute proceedings against delinquents Mar. 16th.

Moray Co. (V. City.-Suits for delinquent assessments will be commenced, March 14.
Michigan Co. (Gold Hill) will commence suits for delinquent assessmenis, March 16.
Lady Bryan G. \& S. M. Co.-Shares of delinquent stockholders will be sold at auction for assersments, at No. 400, Montgomery steet, on Jan. 27.

## general notices.

Yellow Jacket.-Corporate Deed now ready for signature at office of H. G. Maynard, Gold Hill, N. 'T.
Jenny Lind (Esmeralda.)-Owners of ground in this Cot are requestes to call and sign deed of trust at 608 Merchans St.
Mount Hope Co.-Persons claiming stock are reqrested to present title papers for examination till March 16.
U. S. Mining Co.-All persons claiming stock are requested to present title papers for examination at Nos. 7 \& 8 Government House.
Caution.-D. M. Tyrell warns persons against purchasing certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See 'I'erritorial Enterprise.)
Ashland Co.-L. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lamb ledge, in the Moss Co.'s ground, from which the Ash land Co. is forbidden to extract any valuable metals.
Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Tee Sweezy lCo., Gold Hill, give notice that Baltic

Company have wrongfuly claimed and worked their ground since July, 1860.
The Ghmaey Rock Co., lying next west of the Virginia Co. claims have notified the llazel Green, Tingley and Buach f paxton (ompanys that they are treesparsing upon the Chimney Rock Co's ground.

MINING AND SCLENTIFIC PRESS.
THE ONLY MINING, MECHANICL AND SCIENTIFIO PAPER ON THIS CONTINENT.
THIRD YEAR: VOLUSE V1, $\rightarrow$ NEW SERIES!
A new polume of thse extensively circulated paper commenced Sept. 11,
1862. It is intended that uvery number slall be replete with informnthan concerafig Minimy, सicientific, Meclumieal nud Iudustrial pursuits, together with several original engravings, of new inventions, etc., prepared expressly for its colunins.
This puper is dovoted to the nbove purposen, togother with the interests that maty be of interest to the reader: abd it is the intention of the propindetor to spure no paine or expense in making it equat is interent and valuable information to any paper yet publisted.

## The Mining Interest!

Will find it of great value, as it will contain all the news appertaining to Mining, the prices and sales of Mining Stockr, new inveutions of Machinery to the siicer.

## The Inventor I

Will find it an excellent medium for the purpose of bringlag his foyention into notice, of ascertaining the progress of torention in this and other in obtaining his patent, the proprittor having had great experience as a Patent Agent, together with facilitics at Washingtou that enable bim to ob ain Patonts with dispatch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each number will contain reva eral orikinal engravings of new machinea and inventions, together with y
large amount of reading mattor appertaing thereto. Wo are constantle large amount of reading mattor appertainag thereto. We are constanto receiving the best scientific journals from all quarters, from which wr
shall continue to extract whatever may be of benefit or intorest to onshall cont
raders.

To Chemists, Architects, Millwrights and Farmers \&
This journal will be invalunble. All new discoveries in Chemistry will be given, and a large amount of information of great service to drehitects and Mived, and a wing be found in our columns. The Farmers and Planters will
Mol bo neglected, engravings will be given of agricultural implements, and not bo beglected, engravings will be given of agricultur
the farming interest generally will heamply discussed.

## Terms.

## To mall subscribers :-Four Dollars per annum

## Club ratos.

Five Copies for Six Months, $\$ 8$.
Ten Copies for Six Months, \$16.
Fifteen Copies for Twelve Months, 今44.
Twenty Copies for Twelve Months, $\$ 56$.
For all cinbs of Twenty and over, the yearly subscrintion is only $\$ 280$ Names cau be sent in at different times and from dimerent Post-ofices Specimen copies will be sent gratis to any part of the country.

## EWER \& SMIMH, Pablishers,

Room 27, (formerly) U. S Court Bnilding, Corner of Washingtrin and Be
tory strastn, sim Francisen.

## DR. VAN ZANDT, <br> Consulting Physician and Surgeon. OFFICE:

Corner of Washington and Sansome Streets.
The Great Success of this $\overline{\text { Centary, as an Aid to Practi- }}$ cal Medicine.

The Mysterious Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases
THAT THIS PRINCTPKEE, successfully applied to diseased states Of the rystem, is to prove the great sought-for uecessity, long wazting deraugements of the human body il is a part of the great priveiple of viLatity hown as nervous influence and accessarily must have much to do in obviating diseased action.

Too Much Cannot Be Said
highly probable that in bualth the
In its praise ; for it is highly probable that in health there is an exact equilibrium of the ELECTRIC principle ; avd should thin secret and bidden equiirified when it should be positively charged-is not the current brokon, and Is thore not a war of forces going on in our system ? "This Deeds correcting and iu order that the tissues of the body should be susceptible to remedial agents we must Grat restore and

The spinal and sympathetic uerve systems. Belseving as I do most firmly in this great magnetic or electrical intensity of the earth, with ite influence
unon our hodies in health and disease, I am led to tako advantage of tho prens, through which to awaken attention to the subject, that good may come to all.
C. W. THOMAS, Plaining Mill, California street, facing the Mission R. R
Depot. San Franciaco.

TURNER, MARSE \& USGOOD, Succeasors to C. O. Turner \& Co., importers
D. J. B. BEERE-Dentist, 617 Cliay street. All operations on the teeth
performed in the most skillfuland approved mavaer.

WilliJam Ferd, Notary Public for Storey County, N. T. Commissioner of
Deeds for California Virgiua City, N. T.
Palmer, Hanscom \& Co. Golden State Foundry, and Machine Works
(Formerly Sutter Irou Works.) First street bear Market.
[From trer Losdon "Mning asd Safeltisa Magazine."]
THE MEXICAN METHOD OF AMALGAMATION.
BY JIMES NAPYER, JCN., F. C. S.

Late Chemist and Assayer to the Guabaxuato Mint, Mexico.

## coxclitied.

theory of the process.
Hativg now given a brief sketch of the mode in which the Mexican amalganation is carried out, I shall pass on to consider what chemical action takes place in this most interesting process. Before doing so, however, let us consider for a moment two terms- heat and cold, nsed in these papers.
Hect and Cold.-There are two kinds of heat : one is caused by there being add +d a superabundance of magistral; the other is induced by cold, and is called "calor de frive" These differ only in cause, the resuls in both cases being the destruction of mercury. If a hot torta be heated by artifcial heat, the chloride of mercury will act on the sulphide of silver in the same manner as the chloride of copper, forming chloride of silver and sulphide of mercary.
On cold mornings the tentaduras, or samples, often show signs of heat, in which case the action is called calor de frio -heat from cold; but, as the day adrances, and the sua begins to act on the torta, the effect passes off. In the winter season. a somewhat less quantity of magistral is necessary for carrying on the operation than in the summer months the amalgamators begin to decrease the quantities of mag istral aboat the beginning of September.
When a torta becomes hot from the use of a superabundance of material, a quantity of wood ashes or lime is added for the purpose of deconnposing the excess of bi-chloride of eopper to protochloride.
The terna cold simply implies that the operation is not going on so fast as it ought, and that a sufficient quantity of magistral has not beer added; if the torta be allowed to remain long in this state, a large quantity of mercury is apt to be lost in the form of oxide.
Theories of the process.-According to Sonneschmidt, the only theory which the Amalgamators had before his was, that the salt cleaned the silver, the magistral heated it. and that both reduced it to the metallic state so as to combine with the mercury. They were also aware that, for each ounce of silver produced there must be lost an equal weight of mercury ; but why this should be so, was a problem they could not solve, and all mercury lost beyond this they cousider mechanical.

Sonneschmidt's Theory--Sonneschmidt after many years of practice and careful experiment, published a most valuable treatise on the various methods practised in Mexico for the reduction of silver ores, and lays down for the patio amalgamation his theory, which may be briefly stated as fol-lows:-
The ingredients added to a torta, are salt, magistral (sulphate of copper,) mercury, and sulphide of silver. The salt and magistral act on each other, and form a bi-chloride of copper and sulphate of soda; the bi-chloride of copper next acts on the sulphide of silver, forming chloride of silver, which is dissolved in the excess of salt added; and the silver is next reduced to the metalic state by the mercury forming calomel and amalgam. This was Sonoeschmidt's theory, which to the present day is almost universally received as the true one. However, since his time it has been further shown, that the proto-chloride of copper, formed by the action of the sulphide of silver on the bi-chloride, is dissolved in the excess of common salt, and acts on another portion of the sulphide of silver, reducing it to the state of chloride to be acted on by the mercury, and be converted into amalgam. It has also been shown very satisfactorily by Rossingault, who has devoted some time to the subject, that the copper of the sulphate is ultimately converted into a sulphide by the following equation:-
Ag S plus 2 Cu Cl equals Ag Cl plus $\mathrm{Cu}_{2} \mathrm{Cl}$. then Ag S plos $\mathrm{Cu}_{2} \mathrm{Cl}$ equals Ag Cl plus $\mathrm{Cu}_{2} \mathrm{~S}$.
Sulphide of mercury is also at times found in tortas, and it has been supposed that this is formed by the calomel acting on the sulphide of mercury; but may it not be formed, as in
the arrastres, by the direct action of the mercury the arrastres, by the direct action of the mercury on the sulphide of sileve? Some amalgamaiors suppose that the cop-
per is ultimately converted into uxychloride. per is ultimately converted into uxychloride.
Bouring's Theory.-Iu 1848, Mr. John Bowring, who has
had much practice in the patio amalgamation, as carried on in Mexico and Peru, read a paper before the British Association, in which le denied that chloride of silver was forined at all in the process. His principal reason was founded upon experiments made in Guadaiupe-y-Cnlvo, in Mexico, where he states, chlo ide of silver conld not be found even
after learing the tortas in the patio in working order for the after learing the tortas in the patio in working order for the space of four monthe. In 1858, Mr. Bowring also published a pamphletiu Mexico defending the same idea; and de-
scribing, as he likewise did in the theory, the basis of which I translate from his pamphlet:"It is," he writes, "well known, that the materials which are employed in the reduction of the sulphides of silver, consist of salt, sulphate of copper, aud mercury; and that, by place. I mixed the three in an appropriate vessel, and found that the mercury combined with half of the chlorine contained in the bi-chloride of copper, and thus formed a proto-chloride of both metals. This combination of the lat ter metal-copper-has the property of absorbing oxygen hence, we may suppose, that this element is the principal agent in the operation. I made some proto chloride of copper, tried it in the patio, and obtained a good result.
"According to the theory which this mode of treatment establishes, the bi-chloride of copper gives an atom of its chlorine to the mercury, and both metals are converted inte proto-chlorides; the chloride of copper absorbes oxygen, which combines with the sulphur of the silver, forming sulphuric acid, and leaves the silver in a metallic state to amalga-
mate. mate.
"The sulpharic acid formed by the sulphar of the silver end the oxygen of the proto-ehloride of copper, decomposes the common salt, and the chlorine disengaged in this way coubine in either of the two following methods:-1st. With the protrochloride to form again a bi-chluride. 2nd. With the chloride of the protoxide of copper, which, absorbing another equivalent of oxygen. passes to the state of oxychloride, or chloride of the perwide. According to my
mode of thinking, the protochloride of copper produces in the benefficio (amalgamation) an effect analogous to nitrous acid in the manufacture of sulphuric acid. It is easy to imagine that the protochloride of copper, aiter it has absorbed oxygen from the air and water, and given it up to the sul
phur, will return to repeat the sameoperation." phur, will return to repeat the sameoperation."
Mr. Bowring then gives the following proofs of his the-
ory:-ory:-
"I. Dissolve, in a glass or porcelain vessel, salt and a small quantity of sulphate of copper, with this mix some mercury, and at the end of a few hours there will result a white powder which is protochloride of mercury: filter the solution, and precipitate the copper with caustic soda or potash. The orange colour indicates a salt of the prot-oxder, it will, in contact with gather on a filter the white powder, it will, in contact with caustic soda and amonia, be converted into the prot-oxide of mercary, which may be known
from the black colonr it assumes. It the from the black colour it assumes. If the solution of pro-to-chloride of copper be left exposed to the air for a longer time, there will form on the surface a yellowish gree crast, which is a chloride of the prot-oxide of copper.
"II. Beneficiate (a)
'II. Beneficiate (amalgamate) a small quantity of ore, containing sulphide of silver, with salt, and bi chloride of copper chemically pure; at the conclusion of the operation add distilled water; filter, and precipitate the solution with nitrate of baryta; when it will be found, that there has been a formation of sulphurie acid equivalent to the sulphur which was combined with the silver. It is to be noted that presence of acid could not have been formed without the presence of oxygen, which, without doubt, resulted from the absorption of this gas by the proto-chloride of coppcr.
"III Amalgamate silver ore with bichromate of potash these two latter on each other is to evolve oxymen) action of will be found that there is formed an amalgam of silver. In the same way, any materials which produce oxygen may
serve in the amalgamation. serve in the amalgamation.
"IV. Take the amalgam of a tentadura (sample) of a torta which is in good working order, that is in such a condition that when the amalgam is pressed with the finger it aud alterwards with distilled water, when it waill be found that the white powder which remains is a protorbloride
states: "The difficulty there is in working ores containi
chloride of silver (like those from the district of Catora demonstrates clearly the nunfoundation of the formation
district of Cator chloride of silver in the common patio amalgamation Thus, we have. Mr. Bowring's reasou for rejecting the the ry of Sonneschmidt, and denying that chloride of silver
formed, and also the theory of his own which he propos to substitute.

Uslar's Experiments.-In 18533, Dr. Uslar pablished pamphlet in Mexico, comparing the patio with the bare amalgamation, in which he, like Mr. Bowring, denies ths chloride of silver is formed in the patio. He argues, the
if the silver were converted into chloride, some other me the silver were converted into chloride, some other me
al, such as copper, might be substituted for the mercury til the whole of the silver was reduced to the metallic stat and he instituted experiments to prove that such would no answer. Thus he introduced into a torta a superabundanc of materials-salt aod sulphate of copper, and some meta lic copper. The result obtained was, no silver reduced, ani
the conversion of the greater part of the metall copper into chloride. The next experiments were mae with a view of protecting the mercury by copper or iron The results were:-where iron was used, there was no ame gamation at all, the mercury coming out as it went in, with out amalgam; but, where copper was present, the re was diflerent, the amalgam containing a large quantity copper with but little silver. The conclusion drawn by
Uslar from the above other metals is against the amalgamation.
In a third series of experiments, there was put into the torta double the usual quantity of sait; in two days afterward the magistral was added, and the whole trodden at innassals during fifteen days. Then iron was added, and the mass again trodden ; and two days after this the mercury was added ; but the torta, showed no symptoms of entering the patio, and being trodden daily, the mercury was tase
that and out as it was put in, without amalgam. Hence, Dr. Uslay comes to the conclusion that it is not true that chloride of silver is formed by the salt and sulphate of copper, and re duced by the mercury; because, with the extra quantity materials, chloride of silver ought to have been formed, the iron ought to have reduced it more rapidly than the mer cury, and amalgam ought to have been formed ; but nothing. of the kind took place. He also argues, that as ores, corn: taininig native chloride of silver; cannot be worked by the patio amalgamation, it therefore conuot be formed by it
However, Dr. Uslar, anlike Mr. Bowring, proposes no nep Howeve
theory.

Consideration of the Theories.-Having now stated the varous opinions generally entertained regarding the theory of this process, I shall venture a fery remarks which mas oot prove altogether uninterestiog, and may help to throw some further light on the sublject. An apparently very strong argument used by Bowring and Uslar againsi chloride of silver being formed in the patio amalgamation is, that native chloride of silver, according to them, cannol be worked by that process. This might even be quite true and yet chloride of silver be formed in the process; for w6 ave only to consider the physical properties of the nativy hard horny substance, which, even in amuonia-probabi) its best solvent-will take some time to dissolve. Now, ir a torta, the solution of salt is comparatively weak ; it is al so cold, and will dissolve but a very small portion of the newly-formed chloride; but of native chloride (or horn silver,) I question much whether the usual strength of salt in a torta would be strong enough to dissolve any. Edward Lou kner* has ofter assured me that horn silve can be reduced very well, in fact, better than any other com pound, in the patio, providing that great care be taken il the grinding, so as to have it in the smalest possible state o dirision, and that an excess of salt be added in the opera
tion.
Another argument used by Dr. Uslar, to prove that chlo ride of silver is not formed in a torta is, that if such were the case, it ought to be precipitated or reduced by anothe cury.

Now, metalije silver can be produced from the sulphide b: varions methorls; but there is a great difference in the casi

Avinher Dividendepaying Menimo Company．－The Im－ peri 1 silver Miniag Compasy have just dectared a first monthly dividenil of 11,2 per cent．on $\$ 1.01000000$ ，the amount of capital stuck issued．This company was recent－ ly incorporated in this city，and consists of a number of mines and mills at and neur ciold Hill，N．＇T．，tho various parties representing which have united their interests． Among the consulidated concerns is the Washoe Gold and Silver Company No．1，well known in this city as the pio－ veer company in the nill enterprize of Nevada＇Ierritory．

Lady Bryas．－This stock has been more largely dealt in io this city，the past week than any other in the market．It commenced at $\$ 7$ and has been gradually advancing until coday it has reached $\$ 25$ ，with a still upward tendency．－ The cause of this rnovement is attributable to a rich strike at the mine，disclosing rock strongly resembling the Ophir A quantity of this rock has been received in the city，and may be seen at No． 40 ，Montgomery Bluck．Somo san－ guine holders are looking for very high figures at an ear－ ly day．

GENERAL MINING STOCK REPORT．
REPORT UF SALES
Atthe San Franclaco Mining Stock Board， For the weck endiug March 28， 1863.

| Names of Companies． |  |  | $\left\lvert\, \begin{aligned} & \frac{9}{3} \\ & \vdots \\ & \vdots \end{aligned}\right.$ | 感 宗 |  |  | 筥 | 成 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ophir | 18，800 |  |  | ${ }^{2536}$ | 340 |  | 300 |  |  |
| Gould | 4．800 |  |  | 3200 |  | 3200 |  |  |  |
| Callifor | 3，600 | 12 |  |  |  | － |  |  |  |
| ${ }_{\text {Chollit }}$ | ｜ $\begin{aligned} & \text { 5，66u } \\ & 2,800\end{aligned}$ |  |  | 650 350 | 655 370 | 375 |  | 3 |  |
| Fhice \＆Norcross |  |  |  | ${ }_{750}$ |  |  |  |  |  |
| Sierra Nevada | 3，000 |  |  | 75 | 80 | 75 | 75 |  |  |
| ${ }^{\text {Daney }}$ Burulug 30：－ | 8,000 4.800 |  |  | 180 |  | 170 | 125 | 135 |  |
| Nurth Petusi | 2，0u0 |  | 300 | 30 |  | 30 | 27. | 30 |  |
| Rogers，${ }^{\text {F }}$ | 3，000 |  |  | 34 | 16 |  | 16 | 16 | 16 |
| $\xrightarrow{\text { Muredith }}$ | 7：200 |  |  | $4{ }^{423}$ | ${ }_{70}^{4.16}$ | ${ }_{65}^{41}$ | 67 | 71 |  |
| Sucramento－ |  |  |  | 40 | 51 | 50 | 62 | 59 |  |
| Lacerng |  |  |  |  | － | － | － |  |  |
| Suvage |  |  |  | 16 | 1200 | 1200 | 1225 | 1325 | 1400 |
| Iuwa EL Var |  |  |  | 65 | 65 |  | 60 |  |  |
| Norton－ |  |  |  | 17 | 13 | 23／2 | － | 20 |  |
|  |  |  |  | ＝ | － | 二 |  |  |  |
| Porte |  |  |  |  | － |  |  |  |  |
| Burnsid |  |  |  |  |  |  | 42 |  | 40 |
| Adratic $_{\text {Stuar }}$ |  |  |  |  | ${ }_{7}^{83}$ | 6 |  |  |  |
| Soune Davidson． | 10，000 |  | 200 | $6 \%$ | 1／2 | 6 | 6\％ | 6\％ |  |
| Ps3xRRLLT， |  |  |  | 385 | 365 | 372\％ | 325 | 370 | 360 |
| ${ }^{\text {Antelope}}$ |  |  |  | 280 | ${ }^{280}$ | 387 | 300 | 315 |  |
| Esmoralda Real Del of |  |  |  | ${ }_{100}^{42}$ |  | $\overline{85}$ |  | 00 | 100 |
| Ktur | 1，－00 |  |  | 6 |  | 31／2 | 5 |  |  |
| Slaver Mili |  |  |  |  |  | 5 | 55 |  |  |
| Nevala |  |  |  |  | 25 | 20 | 20 |  |  |
| cerliine |  |  |  |  |  |  | 23 |  |  |
| Woso ${ }_{\text {Willow }}$ |  |  |  |  | 16 |  |  |  |  |
| minican mines． |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Kilupleoll |  |  |  |  |  | 10 | 17 | 16 | 20 |

## transactions in shares，for the wele

## NEVADA STOCKS．

Gould \＆Curry -4 at $\$ 3200$
Ophir－20 at $\$ 2575 ; 36$ at 2600, b． 30 ds．
Putosi－15 at $\$ 360 ; 10$ at $380 ; 20$ at 37546 at 350
Chollar－20 at $\$ 575 ; 20$ at 600 ，b． 30 ds．
Chas．Caney－10 at $\$ 75$
Burniag Muscow－ 40 at $\$ 190 ; 170$ at 190，b． 10 ds．； 40 at 145, b． $10 \mathrm{ds}$. ； 30 at $135, \mathrm{~b} .10 \mathrm{ds}$ ； 50 at $140 \mathrm{~b} .10 \mathrm{ds}$. ； 10 at 135 ； 10 at $1371 / 2$

Cole－70 at $\$ 13$
Lady Bryan－50 at $\$ 7 ; 10$ at $71 / 4 ; 40$ at $71 / 2 ; 100$ at 10 ； 200 at $101 / 2 ; 155$ at 17 b .30 ds．； 25 at 17 ； 20 at $16 \frac{1}{2} ; 14$ at 18； 160 at 21 ； 38 at $211 / 2$

Adriatic－ 15 at $\$ 8 ; 10$ at 7
Burnside－ 10 at $\$ 4216 ; 10$ at $40 ; 30$ at 40 b .30 ds ．
Mount Davidson－25 at \＄7／2；20 at 71／4；40 at 7； 10 at 63／4； 10 at 7

North Potosi－25 at $\$ 30 ; 15$ at 30
Cedar Hill Tunnel－60 at $\$ 7 ; 50$ at $71 / 4 ; 72$ at $63 / 1$
Lucern－ 24 at $\$ 14 ; 10$ at $13 ; 80$ at 16 b .30 ds ． 10
Cedar Hill Tunnern－$\$ 4$ at $\$ 14 ; 10$ at $13 ; 80$ at 16 b． 30 ds ． 10 at 13
Nevada－5 at $\$ 45$
Sierra Nevada－10 at $\$ 80$

Savape－ 10 at $\mathrm{E}_{2}^{290}$ b． 30 da ．
Eldoradu－10 at sio
Buflion－23 at $\$ 1$
Meredith－20 at 246： 38 at 45
Inrese River－25 at sis； 20 at 6
Mazel（irven－6itat st
Madisun－9 at 814
Curyell－ 50 ai $\$ 50$ br． 30 ds ．
mMERTDA STHCKS
Wide West－5 at $\$ 36 \overline{\mathrm{y}}$, s．o． 10 ds ； 32 at 3803 at 375 ；

## at 370

Antelope－10 at $\$ 300$
Silver Hill－10 at $\$ 53 ; 10$ at $54 ; 10$ at $55 ; 10$ at $551 /\{$
St．Louis－50 at $\$ 2 \frac{1}{2} ; 100$ at 3 b． 30 ds．
Golden Age－10 at \＄25
Alamo－25 at $\$ 7$
Union（Russ Dist．）-25 at $\$ 31 / 2$

> coso stocks.

Willow Springs－20 at $\$ 20$ b． 30 ds．； 20 at 17； 20 at 18
Josephiner－40 at $\$ 221 / \frac{1}{3} ; 25$ at 23
COPPER STOCES．
Napoleon－20 at $\$ 191 / 2$


Tollowing anter are reprorted hy Phatt \＆Low，of Gold gill ：Thirty feet Prido of Whathur at sisk， 10 feet Duvu at 87 ； 20 fiet Pride of the West at $\$ 70,20$ gevi uverthan at wo．

## Wrinkalar Emmana，Mareh 18th．

There has bo been ennfilurnble llfo in the＂stock market to day，and the ounher of tranafire blas been colluparatively larges．Potosi is atill on the
 bou at these figures．Ther shamrork has ifen in light requrgt in advance
ou our quetutioni of yesterdiay．We undurntud hat very fair looking ruck is belog tabell from the mive．Zovave may be quoted ut As a midurity of this stock is held at the Bay，a firther athanco is looked Sor．Bullion is agsin in rtqu＂st，nuti is marsetable ut $\$ 10$（3）45．The Prin－
cous， coss，at Gold Hill，in in deraaud at $\$ 10$（a） $6 \theta$ ，and the Inquiry for it at these
figures is exceediogly lively．This clutm adjoins tho Uuion on the north figures is exceedingly lively．This clam adjoins tho wuion on the porth Thore are but soo feet in the ctaim．The followiug aales are reported by Platt \＆Low，of Gold Hill ： 22 feet Overmsan at $\$ 30$ ； 20 feet ditto at 335 ； 10 feet Duan at $\$ 8$ ．

Tutradar Efemise，March 10tb．
The market has not been remarkably lively to－day，nor the transfers of exprecial moment．Potosi has fluctuated greaty，uring to the unexpected decisious，or forticomiug decision，of the supreme Court．From $\$ 176$ it receded to 200．Wut will probably revive sumowhat before many days，or as the claracter of the decision is utiderstool．Very fine specimeus of ore
from the Sauta Rita are being uxhibited，and the atock bas adyanced to $\$ 50$ ， at which gigures 22 feet sold to－day．El Durado is upward in the market， and hus found buyers to－dey at \＄75 Brdsnllis in request nt $\$ 45$（3） 50 ，with more buyers than sellers．Pride of Wasbee is marketable at $\$ 25$ © 40 ， with considerable laquiry．Fifty feet changed hands to－day on pritrate terma．Bloomiogdule is again markotuble at low figures．The campany wes incorporated toddas．Harrisou，incorpornted stock，may be quoted at $\$ 25$（a）35．Io Feet sold at $\$ 30$ ．Hazel Groen can be sold at $\$ 4$. © 5 ，Zouave at $\$ 2.4$, Osceola at $\$ 15$, Hforay at $\$ 30$ ．Bullion is saleable at $\$ 45$, Euress at
$\$ 30$ ，Princess and Uuion at $\$ 15$ © 50 ，Buy siute at $\$ 100$ ，Buchanau at $\$ 00$ ， Duna at $\$ 7$（）0 8，and Leon at $\$ 20$ ．

Fridar Evishing，March 20th
The day has been disagreeably sto rmy ；yet the stock market has been comparatively lively．Potosi has not recedel th the prices anticiputed yes－ terday．Operators in Sau Fraucisen are not disposod to go into much of a panic on mere rumor．Tbey are awating the decision．Telegrams an－ pounce that it is still held at $\$ 425$（3） 450 ．Fairview is advancing，and is saleable at $\$ 36$ ．Thirty feet sold to day at these dgures．Bultion is in ro－ quest aa $\$ 40$ ，and is marketablo nt 45 ．Fift $\Omega$ feet sold at $\$ 40$ ，and thirty at 875．The Princess，at Gold Hill，is in demurd at，$\$ 10$（1）50，and might be sold，probably，if in market，al $\$ 60$ ．The Bloomiugdale has been in re－ quest to－day at $\$ 5$ © 7 ．Sisty feu t हold at an average of $\$ 6$ ．The El Dora－ do is held firmly at $\$ 75$（a） 80 ，with lifte in markot．Ten feet sole to－day at \＄75．Beach \＆Puxton is marketable at an advance on our Jast quotations， Birdsall is quuted at $\$ 40$ ，at which ligures 18 feet sold to－day．Eureka， Gold Hill，is saleable at $\$ 30$＠ 35 ，with lit＊le in market．Zouave is quoted at $\$ 21$＠ 22 ，with a fair demaud．The Insurance，west of the Beach \＆ Paxtou，is salcable at ${ }^{3} 5$＠6．Shamrock is rather on the decline．Wo
quote it at $\$ 15$＠ 20 ．The following sales are reportod by Platt \＆Low，of Gold Hill： 6 feet Gold Hill G．\＆s．M．Co．No．I，（uow called the Alpha），at $\$ 400$ per foot． 6 feet Gold Hill G．and s．M．Co．No．2，at $\$ 00$ per toot． 20 feat Overman，at $\$ 30$ ； 10 fuot Overman at $\$ 35$ ．

Saturday Eveateg，March 14， 1863.
The business of this day has been rather light，athough u number of hea－ vy transuelions are reported．Fairview hay beeu in high request． 100 feet suld at $\$ 40$ ，and $\$ 50$ is now offered．Bloomingdale has been dealt in largely to－day．About 200 feet have changed hands at from $\$ 4$ to 7 ．The compeny
is about penetrating its ledge at a depth of about 250 feet from the surfuce． $\$ 10$ is freely offered without takers．The Pride of Washoe is marbetable at $\$ 30 ; 32$ feet suld to－day at that figure．Ashland is again meeting with re－ quest and mav bo quoted at $\$ 10$ to 12 ，witl an upward tenduncy．The san－ tut Rita is aduancing and is now held at $\$ 35$ to 60 ．Very fine ore is being ex－ hibuted from the mine．It is extremoly gratifying to observe such eviden－
ces of value iu the ledges back of Virgiuia，The Branch Mint at Gold Hill， ces of value in the ledges back or Virgiuia，Se Branch hiat al Gold am， low the surfuce．Tha Bolcher is still advancillg．It comot be quoted at lens than $\$ 100$（3）125．Tho Princose，in litigation with the Yellow Jucket， is sought for at $\$ 45$＠ $50 ; 17$ feot sold to day at $\$ 50$ ．Bullion is saleable at $\$ 40$＠ 45 ； 35 teet sold at 4250 ．

## ESMELEALDA STOCK LIST



## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO.



By reference to our advertising columns it will be seen that Arzzona and Sonora.-Roman \& Oo., booksellers, on the opposition steamer, Moses Taylor will leave for the Fast Montgomery street, have laid upon our table an octavo on the 22d of April. The price of passage will be greatly pamphlet of 124 pages entiled "The Geography and Rereduced, thus affording another excellent opportunity of sources of Arizona and Sonora." The work comprises an going to the Atlantic States for a mere trifle.

Change of Steamer Days.-By a notice in another columu it will be seen that the steamers of the Pacific Mail Steamship Company will hereafter be dispached on the $3 \mathrm{~d}, 13$ th and 23d of each month. When any of these fall on Sunday, the steamer will be dispatched on the following Monday.

Mr. Mowry is intimately acquainted with the country, and has collected in the page before us a large amount of seasonable as well as valuable information.
Mining Dividend.-The Gould \& Curry company declared a monthly dividend, on Friday last, of $\$ 100$ per foot -making a total of $\$ 120,000$, as the yield of that mine for the past month.
Jewel Company.-This company, located in Spring Valley, Washoe, and incorporated in this city, has recently struck very excellent ore in their mine, 90 feet below the sur face. Thirty tons of the rock is about to be crushed at a trip from the North.

LOWER CALIFORNIA Polonization and Mining Company. THE AGENTS SENT TO MEXICO BY $1: 25,000$ Acres OF RICH AGRICULTURAL LAND,
and ev valumbls silver Mine, Company ho now prepareal to furmsh exact infor Fhon lit Citonitht whu have already eugugud, or thooe

## SPLENDID ENTERPRISE,

 No TIIE SHOLLD BE LOST BY COLUNISTS.

## Earmere Minors and Mochanich,

 th familien are particularly havited by the authortor clice Territory. The lairl xeftectel, in point of for thas kuawn to es.at in lite Torritorg are in the immed! - vielmity nud borderiug on the agricultural hande of foc colung.
N. B. Bear la mind that a share costa, nt present, on sisoo, which ebtitles the holder to free transpurta-
 In whote enturprise, beiug for the tuntual benuat or unatures only.
Full fuformation can he had, and Mineral and Cotion
 , Nurth-west curtur ot Clay and Erout Street.
hoard of trusters.
A. g. ra volall, President.





LEANDER RANSOM,

## Civil Engineer

 andSURVEYOR,
taving been connected with the public works
the State of Olio for 20 years, and the publio the State of Ohio for 20 years, and the pul
arveys of the State of California for 7 years.

## ALSO

STATE LOCATING AGENT.
And as such hnving the sale of
00,000 ACRES OF STATE SCHOOL
LANDS,

## At the low price or \$1,35 per Acre.

Terms-Twenty per eant in cash avd the balanco Porrew of Eeveray years.
of Montgomery and Calffornia strects.

IAYNES \& LAWTON, maporters and dealers in
CROCKERY, GLASS WARE,

## FRENCH CHINA,

Coal Oil Lamps, Table Cutlery, CLOOKS. Silver Plated and Britania Ware, ETC., ETC., ETc.
NO. 516 SHNSOME STREET, [CORNER of merchant,]
4016 san Francisoo.

## Attention! Attention!

 ATACTOFLAND, EMBRACING AN AREA OF 400


 For phaces if residener. That thin jroperty will inctens
a vislue, is as certain us thu future of sian krancisco. Invertmenta in Real Ehate, it is woll known, luse
 Id facrease of our population.
Invest In Real Estatu, atnd you will find it moro prontin

 The priess tor loty in the above trant w'd remakn uns Thee tille to the land in porfect.
for further garticulurs agply HARVEYS. BROWN, No. 10 Naglee's Building.
Lithographio Mapa enn be seou and had at the athoy
no 136 mo
named ortlece.

## A. ROMAN \& Co.,

Book Establishment,
$41 \tau$ and 419 Montgomury street, SAN FRANCISCO.

Orders respectfully solicited and promptly attended to A Trentise on Metallurgy, Compriming Mimntrand Gell
erah and Partuculur Mutnlurgical Operativias, EL
Lice, By Fredurick Overman.
A Maneal of Mutallurgy,
umada for thu Usu ol tho Mine Agant and Smelter.
By J. mes Phillips and John Darlougton.
Manmat of Metallurgy, more particithrly of tho precious
inctals; but includ ing such othors as are
in dutat practice.
Practical Mineral As naying nad Mining. Overman.
Gold Mining and Assaving; by Phips.
Miners' 'companion aud Guide, compiled by Silversmith Assayers' Guide; or Practical dtrectious to Assayers, MiPractical Assaying, by Michell.
ilver Ores and Silver Slines, by Pro. Blake.
Ure's Dictionary of Arts, Manumetares and Mineg.
Westhach's Muchunics of M ichiuery and Eurinerin Westach's Mfechanich of M whiuery and Eugineering Nuvilo's Hyiraulic Formula
Freathias' Chemacil Analysis.
Together with many other wor
132. Books imported to order on whort notice. A. ROMAN \& Co.
$41 \%$ \& 419 Montoomerv Street.

## READ THIS

COAL OIL EXPLUSION.-ON SATURDAY EVENTNG, Strvot Huake ia pouriag conl oil from oue can to another, bas wife imprudeutly approached with a IIghted candlo and tho oil exploded. Birs. Brewster's arms were badly burned, as were also the husband's handy. Flowever,
be succeeded in mastering the fames, and preventing be succeeded in mastering the fames, and prev
worse consequonces.- [Evening Bulletin, Aug. 4.

## THEN THIS!

Comet Illumitating Oil !
Manufactured expressly for Stanford Bro.
? mis popular
Brand of Kerosene
 other expliosive umbernal, nutis is the
BEST FAMILY OIL IN THE MARKET. STANFORD BROTHERS, Noss. 121,123 aud 126 Calife-zin street.
Jur $\mathfrak{B e a d f t u n g ~ f u ̈ r ~ ש r r f i n d e r . ~}$
Exfinter, meldje niajt mit ber englifajen Sprade befanut fino, formen ihre Mitthungereil in ber beutifien Spradie madicn Sifzzenven Erfindungen mit turzert, beut(4id) geiduriebenen Befdreifungen belicbe man gut abbrefiizert ant.

$$
\text { J. SILVEREMITH. Exchango Building, Roon } 23 .
$$

## Gird's Budding Knife.


 description and eugraviag see Mining AND ScIENTIFIC
PREs No. 24 , vol. v. State, ferrritory aud workhhop rights for sale at reaAddress, $\quad$ Publighers of Mining \& Sciontifie Prass,
(Agent for Patentee.) sepl-8m (Agent for Patentee,
San Francisco

The Occidental Hotel Open for the Reception of Guests.
$T$ mis moteg has ale the mourgn taprove



News stand, CABINET FOR MINERALS;

## A Branch Telegraph office,

 the lisw thronghnutheLEWIS LELAND \& CO.
San Franclsco, Jan. 1st, 1868.
MUSIC! MUSIC !!
A. K $\overline{O H} \mathrm{LER}$,

IMPORTER OF EVERY DESCRIPTION OF
Musical Instruments \& Musical Merchandise SHEET MUSIC \& MT'SICAL, BOOKS. GENUINE ROMAN STRINGS, \&c.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradiury's Overstrung Pianos.
Wharever these iustruments are known they
RANK AS THE FIRST AND BEST
Inftone, delicacy of touch and durability.
All the leating Mrusicians of the country have
testified lo their superiority.
A. Kohler, Agent fur tho Paciuic Const.

MELODEONS AND HARMONIUMS
from tee cblebrated manufactory of MASON \& HAMLIN, Warranted superior to all others.
no2 Sond for a cataloguo aud Prico list.
( A. KOGLER, Agont.

## To MMill Owners.

Wantro, by a person fully competeut to the position, a situation as Masing surbelintentent in a Gold or Cipper Ming. The Applicant was engagod for about eight years and has ucted int the samper capaily in Gold Minersin this
antute for the past seven years. Ho hus had much expe.
 Ore, Ho can givo ample testimonies as to his canpacity
for the position lie scebs. Apply nt this uffice.

## W. T. \& J. GARRATT,

 Gity Brass and Bell Founders
## Cor. Fixst \& Market sts., San Francisco.

$\mathrm{B}^{\text {ABBET METAL CASTINGS, FIRE ENGINES, FORCE }}$
B uad Lift Pumps, Church ind steambont Bella, Tavand H wh Bells and Gongs, Hose and all other joiuts, Gayin coeck, Cylinder cocks, oil Globes, Stenm Whistles,
HYURAULIC PIPLS AUI NOZZILES for MINING PUR-
 ratt's Patont Improved Journal Motal.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultural state fatr FOR 1862.
ALSO; FIRST PRERYUMI
At the San Franclsco Bay District Agricultura! Fair, 1862 MANUPACTORY, Wholksale afd retar,

No. 44 Leidsdorff street,
Opposito the What Cheer House, San Francisco.

## LATES'L IMPROVEMFNT

in Ladies' Buckles.
 denters in Joserelry, bhat he has wiule mportant improvements in EUCKLLS, which surpuss miy and all bereto ore made, Their simplicity, commodioustess, and
beauty render them the must useful us well us oruamental trinkels,
Orders from the country respectrilly snlicited. Fo
 Ban Macturing Jeweler,

GREA'T REDUCTION
IN PRICES.
STANFORD BROTHERS, 121,123 and 125 California street,
Keep the Largest Slock of all Kinds of
Lamp Stock
And will Sell Cheaper than any other
Lamps, Chimneys,
Wicke, Camphene,
Burnina Fluid,
Alcohol, Coal Oin,
Turpentine, Keroskne Oik,
COMET ILLUMIPAIING OLL,
Sperm Oil, Lard Oil,
Machinery Oil,
Rape Seed 0it,
China Nut On,
Polar OIL,
Linseed Oil, Raw and Boiled,
Shark's Orl,

## Neat's Foot Orl,

## Tannkrs Oth, Eto.

Our customers in particular , and the country trade genorally, are requested to aseertrain vor prices before pur.
 rates thas they cau afford to.

## 50 lbs. MIARINE AND

Fire-Proof Paint, Manumaciured by the pactic metallurgicar, Works in this city, tor Hulls and Decls of Vessels; tharge and six other Minerals. When used on the Decka or Botioms or sinings it is equal to a cont or stoue, and
quite equal to Copper, no worms will ever effect $i t$, and quite equal to Copper, no worw
cheaper tlan any other paint.

## DIRECTIONS :

For Decks of Ships, use two prrts Mineral Paint, one part White Lead, mixwith Livseenl 011.
For Bottoms of Vessels, uso one part ground sulphur three parts Mineral Paint, mix with Coal Tar and apply. it hot.
For paio by all Ship Chandlers and Tradesmen, in boxell of 50 its . each, or by the Pacifo Metallurgieal Works,
g's POUNDS FIRE-PROOF PAINT.
When used on Roofs, Buildings, or Fences, it is equal Firo Piouf, them wha Firo Proof, and consting less than uny pajut.

## DIRECTIONS:

HOUSE:-Mix three parts Mineral Pand wilth one par White ead, that with Limased oil: if a ligater color' is Wauted, mix lens paint, more lead.
ROOF : Five paits of Minerul Paint, one part white Lead; mix with Linseed oil. Put it thick onatin Roof as one coat when properly appliedwill last three yeart.

WORISS, North Beach; Offee, 318 C̣ulifornin st., Snn Francisco.

## WRIGHT'S PICKS.

TOHN WRIGHT, of Sacramento, has estabisted himself in San Francebec for the munufaeture of every deseription of 1 ICKS, of the best materinl, at reduced prices. Picr Exes of the best iron furnibled in any quan tity, at low rates Orders from the country promptly attended to. N. B.-Noue genuine unless stampod with my name. JOHN wRIGET, 511 Market street,
Opposito Battery, San Francisco.

## REMOVAL.

O F FICE OF THE PACHENC MEMTAL Having enlarged our Works at North Beach, we are how cuabled to reduce from 10 to 15 tons of Silver or Gold rock per day.
Gold uud silver ore, and Sulphuret Assayers', or silVorsmiths' sweryive, reduced or purclataed.
COPPER OBEL-Highesi markee rates advanced in
cabh, for shipmeuts.
S. C. BRADSH cash, for shipmeuts. S. C. BRADSHAW, Agent,

## SPECLAL NOTICES.

Office of the San Francisco Gold and Silver Mining Company, San Francisco, March 16, 1863 The Annual Meeting of the above named Company will be held at the Company's ORice, No. 7 Moutgomery Block ou Monday, Auril 6, at 1 o'clock, P. M.
Mar. 18-td
J. H. BLOOD, Secretary.

Office of the Tennesec Golld and Silver Miniug Company, Sau Francisco, March, 16, 1863.-The Annual Mecting of the Stockholders of the above named Company will bet held at the company's Omce, No. Montgomery Block, on Monday, April 6, 1863. marl6-td
J. H. BLOOD, Secretary.

MYERS \& DAGGETT'S
Mining and Stock Exchange, No. $231 / 2 \mathrm{~B}$ street, Virgiuia City, N. T. Mining Stocks ol All Kinds Bought \& Sold. Business connected with Mining Stockz of every descrip
tion promptly and coufidentially ittended to tion promptly and coufidentially attended to *** Abstracts of Titles Furnished, Etc. $^{*}$.

FREDERICK MANSELL,
MECHANICAL \& ARCHIPECTURAL DRAUGHTSMAN,
No. 4ZAB California street, corner of Leidsdorf.
Drawings of MoDE1s made for parties for patents a
Washingtou or Lonuon.

## Volcanic Smelting Fumace.

PERSONS DESIRING INFORMATION AS TO THE USE
 tenderg to make ase of the same, when satislied of its
superity over all other means of reducing ores and eeparating metals from the sulphurets, can obtain all needed explanation and advice in regard to the snme, nnd the terms of salo of rights to uso the same, on application
Col J. D. Stevenson or T. Ugg shaw, or by letter to the proprietress through the Post Offec of San Fraucisco. the Drawngs may be seen at the office of Col. J. D.Stevenison No. 614 Merchant street, or at the oflice of T. Ogg shaw in Braunan's Buildang, Montgomery strect.
The time required tor reducing ores by this Furnace one-tenth as much us is cousumed by other processes.
The process of condensation is applied to this Furnace which usually escape in a volathle form.
The attention of all interested in the nubject is requested to examine the important results obtained by this pro

Parties wishing will be allowed to erect a trial Furaigning an obligation to pay the usual fee for the right to use it, should they continue to make use of the iavention or s longer period than two months.
meh 16 MRS. E J. HALL, M. D., Proprictrese

## New Style of Lady's Buckle.

W. BOHM, INVENTOR \& PATENTEE
$I$ He SUBSCRIBEP. HAVING OBTAINED LETTERS PAT-
ent from Washington for an improvement in the 1 ent from Washington for an improvement in the
construction of Ladies' Buckles, is nowready to fur nonst ruction of Ladies Buckles, 18 nowready to fur
nish the same in every variety of style. This buckle possesses soveral Fery inportaut improvements over any possesses sover
0 ther in use.
The invention having been carefully examined at the Patent Office, has been adjudged to be a useful improve meat, and Letters Pateut hare beengranted for 15 years

Usefulness, Strength
Usefniness, Strength and Appearance
The Public is respectfully invited to call an
BRATERMAN \&LEVY,
BRA FFRMAN \& LEVY,
621 Tashing ton Street, 太n Francisco.
JOSEl'H, BROTHERS, JOSEl'H, BROTHERS,
607 Sontgomery Streett, San Francisco.
ELORERG \& CONRAD, FLORERG \& CONRAD, Agents for the Patentee.
Every Buckle sold will be guaranteed as to its Sttergth
W. BOHM, Patentee.
JULIOS SILVERSMITH,

## Commissioner for Nevada Territory OFEICE, IN LATE STATE CAPITOL,

Corner of Battery \& Washington streets.,
Room 23, up stairs.
WE WOULD RESPRCTIULLTY SOLICTT FROM THOSE ed Territory, a share of their patronage in all matters re quiring the oflesial action of a Conamissioner-such a quiring the ollejal action of a Commissioner-such as
the drawing up af affidavits, acknowledgments, the tak-
ng teatimony, ect.
P. M. STEAMSHIP COMPANY. NOTICE.
Until further notice, the stenmers of
Prechic Mill stenmship Compuny will hereatiter bo Prelic Mains
dispateamship ou the
$3 \mathrm{~d}, 13$ th and 23 d of each month.
When any of the above dat' 's fail on Sunday, the steam
er will be dispatched on the frllowiug Monday' When any of the above dat 's fail on Sunday, the stea
er will be dispntched on the fill nwiug Morday
A. B. FOREES, Agent.

FULTON FOUNDRY \& IRON WORKS
HINCKLET \& CO., manefacturers of
Steam $\mathbb{H}$ ngines, Quartz, Flour and Saw Mills; Cast Iron Fronts, for Buildings, Minine Pumps,
and all kinds of Machinery, Ete., FIRST STREET,
Betwern Market and Mission............SAx Fraxcisco.
*** All kinds of Iros axd brass Castras furniahed
at siliort notice. Every style of Fivisive to at stiort notice. Every style of Finshive to Irou when
anst. Repairing of Machinery veatly doue. Pattrab Maxing in all its various forms. Prices low. D. B. Hiscrley. Wa. E. Worth. Wm. A. Fibld,

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel. THE SIMPLE, COMPACT, STRONG AND effective manner in which it is appled to any height of fall, ( 3 feet to 300 ,) and to any kind of machincry, will Save in Transportation Material and Labor, from 25 to 50 per cent. of the entire cost of the Structure to which it is applied, and proportionally increase its value.
For full information from the Ioventor, apply at the Mivers' Foundry, trom 10 to 11 A. w., or address

## J. M. BETE.

Miners' Foundry, San Francieco.
Th is Wheel is fully gurantred. Jaulatr

## Agency For Patents.

$T$ HE UNDERETGNED having been long establisbed in the Patent Agency Business, and baving favorable or the Patent Office in Washington, offer their services or the securing of careats and Patents ulso, will at
ten tot male of Patent Rights, and to all matters
counected with patented invertinus. WETHERED \& TIFFANY,

CHARLES R. BOND, (Inte City and County Assessor.) REAL ESTATEAGENT,
No. 410 Montgomery street, San Francisco.
Giateal Eatate Purchased and bold, and Loans Nego

## WHEELER'S

## Amalgamating and Separating Pans,

It is acknowledged by all who have examined the prin ciples and witnessed the operation of these Pans, that they are decidedly superior for tritur
mating purposes to any other in use.
The most important principle connected with the ope-
ration of these Pans is the senaration of ration of these Pans is the separation of the trituratiog
process from thet of exrractiog the amalgam from the saud. The chiet cause of loss of che preciour metals arises from the passing off of the same in combination with
the quicksilver, during the proces of trituration, and i
eleaning up. By the introduction of the Separating pan cleaning up. By the introduction of the Separating Pan
to frllow the trituration this lose is entirely avoided. In working these machines there is no appreciable loss
quicksilyer, and hesce none of the precious metals. quicksilyer, and hesce none of the preciots metals. by tho side of others on sauds from the same vat, the
Wheeler Paus have uniformiy gained a large percenta Wheeler Paus have uniformily gained a large percentage
of metuls over its comperitors, as well as a still larger of metuls over its comperitors, as well ins a
jercentage in the amount of work performed.
*** These Pans man be secn in dajly operation, at the Miner's Foundry, on First street in this city, whore al interested are invited to call and examine for themselve no16-4f

Steamship Line! conneóting
CALIFORNLA AND NEW YORK, viA NICARAGUA.
750 Miles Shon ter than any other Route The Fast and Favorite Double Engine Steamehip,
MOSES TAYLOR,
J. H. Bleteen............... Combunder will bo dispatched for
San Juan del Sur, From Mission street Wharf, Punctually at 9 o'clock, A. M., on
WEDNESDAY, - - APRIL 2\&, 1863
Connecting at GREXTOWN with the Splendid Steamship

## ILLINOIS

Reduced rates of Passage and quick trips are secure by the re-opening of the Nicaragua Route.
These Steamers are unsurpassed for spced, cleanlines and satety, and every effort will be made to insure th For further inform
20 No. 407 T. K. ROBERTS, Agent,

## P. M. S. CO.

Pacific mait stramship compantio
 stamstiip company at Aspiurall.
 reasure, for Pumma

On FRIDAY, April 3d.
AT 9 o'clack, A. m., punctually,
And connect, wia Panama Railroad, at Aspinwall, with
tenansulus lor New York. tenmships for New York.
For Freight or passuga
je4 Corner of Sacramento and Leidesdorit sts.

> Miners' Foundry

## MACHINE WORKS,

Eirst St., between Howard \& Folsom, SAN FRANCISCO.

E VERY DESCRIPTION OF IRON AND BRASS MACHILu Dery, the Best and Most Liconumisal, mallufacture Ma thin state of cailiorvin, will be turnshed with dis
batch at the Miuers' Foundry and Machine Works, as:
F Steam Eugives and Boilers, Flower, Saw and Quartz mill machinery, Miniug Yumps, Amalgamatora, Retortis,
Ete.
Particular attention will be givon to the manufacture
Particular attention whin be givon to the manufacture
of Machivery in Sectious, desigued for pliceco of uiflucult
access. Various mudels of पuartz Crushers, Amalgumnaccess, Various mudels of पuartz Crushers, Amalgama
tors sidd Water Wheels-some in operation and on uxbi
*. Parties desiring to test their ores practically, is amiall quantities will le a florded ample facillies, free o

All partics desiring aceurato and highly fintshod draw ings and Superior Muchinery, at most reasulable rate
are cordially invited to call before contractive elsewhere.
homland, angel \& king.
San Franciseo, February 23, 1863.
DONAHUE'S Union Iron and Brass Foundry,
 The First Established in the State. M ANUFACTURE STEAME ENGINES Quartz stampers, Amalgamators, etc., ctc., at reduced Gear and Machinery Patterus in the State, a list which will be forwardea to bnyone desiring it, free
PETER MONALUE

SQUARZA'S PUNCH. Home manveactory.

No, 44 Weidesdorstis sind Retal, macramento Branch at 406 Mouttomery strcet. my 30

PALMER, HANSCOM \& CO.
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery, of all kinda also
Genuine White Iron Shoes and Dies. PALMER, HANSCOMB \& CO.

## To Quartz Miners.

 Knox's ImprovedAMALGAMATING PAN,
PALMER'S PATENT STEAM CHEST.
$T$ He above combination secores the most any nrocess now known.
By it $k$ itea no in introduced in the most effective and eco-
nomis. nomical mas arner, while et it pecullarly adapted to the the
catching forting gold and silvor, known to bo other-


The public nre informed that Letters Patent have been granted the undersigued upon Stam Chest False Bot-
toms, for the inside of Amulgamating Pans or Tubs, and toms for the inside of Amulgamating Pans or Tubs, and
are cuutioned against muking, buying, using or selling the sume without his consent.

## VULCAN IRON WORKS CO.

 P. TORQUET.............MANAGER.R. TVERS. C. R. STRIGER. S. ATtKin.

## Steam Engine Builders,

Boller Makers, Iron Founders and Gen eral Engineers,
Nob. 137 \& 139 Fimst Strket, -.... Shan Francisco,
Steambont Machiservy builtand repaired ; alse Saw Flour and Quartz Mills, Pumping and Mining Machinery
etc.,
etc.,

Proprietors of Morse's Patent Fire Grates, ofval, Fourneyton and other Turbine Water Wheela with latest improvements.

## DEETKEN1\$

Chemical and Metallurgical Works;
On San Brune Road, Islais Creek,
san rbanclisco.
G OLD BEARNG SCLPHURETS WORKED AT RESS seul proeefs. Yield of Sulphurets from 30 tu 50 per ce
higher than tho BES AMALGABAIIUN PROCKSS. higher than tho BEST AMALGABAATLUN PROCLSS.
gea Apparatus for separating Sulphurets set up by pericuced linads at a cost of $\$ 50$ to $\$ 100$, if desired by mill uwners. No power nor elean water required for
ne purpose. be purpose.

## LEWIS COFFEY AND RISDON,



The only exclusively Boiler Making Establishment on The Pacific Cuast Owned and conducted by Praction Boiler Makers. All orders ior New Work, the repairing
of Dld Work, execated as orderod, and warranted ai to quality.
Old Stand, corner Bush and Marizet Street
Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RISDUN.

## JAMES PHELAN,

(Late J. \& M. PheLax,)
IMPORTER AND JOBBER,
Wines; Liquors, Etcustey
Nos. 616 \& 618 Front street,
Between Jackson and Pacilic Streets,
Established 1849 .
All Goods Guaranteed. Orders Solicited termis liberal.

## 「HEODOR KALLENBERG

Maker of Models
FOR INVENTORS.
 ical Instrumedts, scales, Weghts, etc
Stumps, Dies and Die Sinking, Erabossingsitamy
Repairing of Machiuery promptly attended to. Repairing of Machiuery promptly attended to.
No. 4 Sansopestreet, corner Marlat,


IORE ABOUT THE "KEITH PROCESS" FOR DESUL PHURIZING ORES.

In a late issue of the Press we gare some account of a new prucess, fur calcining or desulphurizing ores; with a romise to report further upon the matter whenever anyhing new came to hand. This process has been introduced at Blackhawk in the P'ke's P'eak mines and is known as the Keitr process. We quute, as before, from the letter of a correspundent of the Territorial Enterprise:-
"The process is a more sensible plan of working than any saw in the country. It may not be all its owners claim or it, but it is a move in the right direction, and with suck mpprovements as may from time to time be suggested, will
ventually be the mude used throughout the Colonado mines. As this process differs in some respects from those in use in Washoe, it will doultless be interestiug to our millmen to foad a description of it. The ores of the country contain a ery large amuunt of sulphur, and this has been a source of
reat trouble to nillmen. It is apt to combine with the reat trouble to nillmen. It is apt to combine with the o granulale. This effect is more readily produced when virm water is used in the batteries, therefore only cold ater is used. Some attempts were made a year or two ago o desulphurize the ores, but without much success.
hat the sulphur connot as easily be burbed out of their ores s out of our own, but the mode of operation was defective.
'hey attempted to burn the sulphur out of the lumps of re just as they came from the mine. This they tried to do y piling it up in kilna, built exactly like lime-kilns, an urning it as lime is burned. 'I his only glazed the ore he outside and melted the sulphur without dissipating it. On breaking open lumps of the ore, streaks of melted sul-
har could be seen through the mass. Until lately no one hought of firsteru-hing and then burning the ore as heans of getting rid of the sulphur. I do not doubt but the everberatory furnaces used in some of our Washoe reducion works would effectually desulphurize any of the Pike peak ores. But Keiths pan differs greatiy from ours, and ary be much better and cheaper. I don't know that a
ritten description can be understood, but I will make it as lain as possible. In describing the desulphurizing apparaus it will also be necessary to mention a new grinding mill, alled by its inventor the 'Young America.' The reader rat to imagine a mill built (as they generally are in
Vashoe) with one floor some eight or ten feet above th Vashoe) with one floor some eight or ten feet above the
ther. On the upper floor stands a masticator (the same as hose used on the Pacific const, which breaks the ore into mall piecea. The pieces pass from the masticator into the lopper of the 'Young Aruerica' mill. Now for said mill :-
The mill is simply a hollow drum or wheel of cast iron about wo feet and a half in diameter and six incles thick, setting ip edgetwise as a common griadstone stands when hung. Bu his is not hugg and does not revolve, but is securely fastened n a frame. The crushing machinery is inside of the circular
hell, and consists of nothing more than a number of fan shap hell, and consists of nothing more than a number of fan shap-
d arms which revolve with very great velocity. These arnspre slightly curved and toward their points widen out till hey are nearly as wide as the shell within which they revolve. That is all there is of the mill, velocity does the rest. The fans revolve with such tremenduus velociry that all the pre coming into it is knocked iuto an impalpable powder The immease velocity of these faus surprises the attraction f cohpsion in the pauticles of ore, and they instantly sur cender in the shape of the finest dust. Now, when I com
to tell how the dust gets out of the mill I approach the de sulphurizing apparatus. The fans of the mill, revolviog as have deseribed them, of course, create a strong blast, lik the blower of a foundry. This carries out the ore as fast as
and up a sheetiron tube about six inches in diameter (common stove-pipe,) to the furnace, some eight feet higher than the mill.

Tt:e furnace is a square brek structure, with a grate about three feet wide by four in length, and three feet high, in which a fire of common pine wood is bailt. The flame from this fire-place escapes into a chimney built in the shape a muffe and, instead of rising upward, runs down toward he lower floors at an angle of torty-five degrees. The tube from the mill enters this muffle-shaped ch miney at its upper end, just where the blaze from the furnace enters, and the strong current of air forced down it carries the flame through its whole length It is claimed that much of the air forced nto the chimney is comsumed, as also all the sulphur contained in the ore, which in burning greatly intensifies the heat. There are several round holes, un inch or two in diameter, at intervals of three or four feet along both sides of the chimney. Througl these, when the apparatus is in oppration, a further supply of air than that furnished by the blower, is sucked in and assists in decomposing the sulphur contained in the ore. By the machinery above decribed, ore may be more quickly and perfectly burned than by any other plan I have ever seen.
In passing down the flue, or chimney, the pulverized ore is
blown as dust through a jet of flame for a distance of abour
twenty feet-the length of the flue-and each particle being
separate, is surrounded hy air and a strong flame-in fact, is itself a red hot, blazing spark, with nothing resting upon it or confining it. 1 t is in itself a miniature meteor, with plenty of room in which to give off its sulphur, arsenic and oth-
er volatile constituents. After pasi $g$ down the flue, it falls
into a receptacle of brick-work, whence it is raked out upon an earthern floor to cool. The ore now presents about the same appearance as that burned in a reverberatory furnace - a brick red. The amalgamating machinery is simply an arrastra about eight feet in diameter, with a stone bottow
and drag-stones. The sides or rim of this arastra is of copand drag-stones. The sides or rim of this arastra is of cop per plate.
Mr Keith claims that with this machinery he can extract one thousand dollars per cord from rock which heretolore, by the old peocess, has only yielded two hundred and
fify dollars per cord. The expense will be one handred dollars per cord, leaving nine handred dollars clear. [ 1 cord of ore as measured in Pike's Prak, varies from 5 to 8 tons, according as the same may be heavy or light.] One-third of a cord of ore was tested by this new process, during my stay in Central City, and yielded at the rate of about eight hundred dollars per ton, where the old yield was thirty one dollars and twenty-five cents per ton. This was a most satisractory result when we consider that it was the first attempt with the new apparatus. The mill men of Colorado have been sluicing twice as much gold into the ravines as they have saved. They have loog known this, but they were Noll poor and afraid to venture upon any kind of experiments. Not a single man of cup'tal bas ever attempted the reduc-
tion of the ores of this country. All who have engaaed in tion of the ores of this country. All who have engaaed in
the business have been men of small means. Some of these have now become wealthy and are just beginning to think of mproved machinery and processes.
There is much of novelty and perhaps of value, both in the crashing and desulphurizing process, as described above, The rednction apparatus, spoken of as the "Young Amer ica" mill is constructed much after the manuer of Pond's crusler, which was illustrated in our issue of March 16 th, and almost precisely like the "smut mills" used in the wheat growing states, at the East. The process for desulphurization is certainly very ingenious and quite new. If it will accomplish a tithe of what its projectors claim, it must prove of great value. The results given, as yet, appear to
practical use it must, and will soon find its way into general use. We shall carefully watch for further results, and shall lay them before our readers as soon as obtained. The objections, spoken of in our first notice of this process, wre not yet entirely removed from our mind. We trust, however, for the success of the general interest of quartz mining, that this process may accomplish all that is claimed for it.

## THE MINERALOGY OF THE OVERLAND ROUTE.

We have heretofore given several interesting extracts from letters written by "Dan de Quille," to the Territorial Enterprise, during his late trip by the Overland stage-coach to the East. We now copy the following from his latest published letter :-

The country shows nothing but sedimentary rocks from the Webber to the Black Hills. Coal is found cropping cut on Green river, on Bitter Creek, and in sevtral other places on the route. On the Yeliow Creek hills, which we get into soon after leaving Echo Cañon, we found our road obliterated by the snow having drifted over it, but we had a strong team of six mules, and passed over the range without difficalty or delay. The Bitter Creek country is the most barren, bleak and dreary on the whole route. It is really a bitter looking region, und bitter must be the lot of those whose fate it is to keep the stations of the Overland Company in this dessolate place.
A ceas orl might be had here with very little trouble. It drips out of the rocks in one place along a ravine. At one of the stations they told me that they sometinies dug out this rock and used it for fuel. They supposed it to be some kind of coal. yet were puzzled to know what to make of the stuff, as it was not the color of coal and presented much the appearance of any other shelly rock. It was in no wise reduced in balk by burning, and after the grease stopped stewing out of it, it would go out entirely.' "Their coal was simply slaty rock completely saturated with coal oil. Were this in Nevada Territ ry or California, it would be a fortupe worth securing, and it may be of value, situated as it is, in Bitter Creek Valley.

Silver Indications.-We passed through the greater part of the Black Hills in the night, and had little chance of examining their formation; but when we first entered them I noticed several quartz veins crossing the road. These had more the appearance of being silver-bearing than aurifenous, and resembled some of the ores of Palmyra District, Nevada. Territory. Judging by what I saw of the country, I should say that paying mines exist in these mountains, at least on their western slope.
'The Norte Pacific Revient for April has been laid on ar table, and contains a variety of attractive reading mat-

The present number is embellished with a spirited and lile like lithograph of Gen. Joseph Hooker. Mr. W. Warrin, Esq., retires from the editorial chair, and the Magazine will hereafter be conducted by Messrs. Dalgliesh \& Co.

The California Nautical Magazine for April has a good table of contents, chiefly adapted to its own peouliar sphere.

Another Monster Dinmonn.-Late Havre papers speak of a diamond recently found by a negro in Brazil, far exceeding in dimensions the famous Koh-i-noor: They say that Sambo intends to appropriate the preceeds, to the eso tablishment of a settlement for free blacks.

GOLD MINING IN WALES, (ENG.)-NEW MINING MA-
CHINERY.
The returns of the British mines for 1861 contain the first actual report of gold produced from a mine in England. This gold was taken from a quartz lode in Dollelly, Mirionethshire. The natural consequence of this discovery was the formation of numerous companies to work other lodes of a similar character in North Wales, in the progress of which considerable interest is felt among British mining circles.

We learn by a paragraph in the London Mining Journal of Jau. 20th, that these companies have met with similar troubles with regard to the saving of the mineral which was, and still is encountered by the gold miners of California. A correspondent of the Journal says that "Several modes of extraction have have been experimented upon, and have generally, if not totally failed. The lastattempt was to be perfect; there was to be no mistuke alout it; but the result of that, again, was that about 17 ounces of gold, per ton, was extracted fron the tailings." Here, we appear to have the early days of Califorvia repeated in the ancient mining region of Wales. At present, it is said that but two gold mines, there, are makiog regular returns. Quite a discussion has also been goiug on as to the relative merits of the ordinary Stamps and "Berdau's Ceusher," for reducing the rock. Berdan's machine seens to have the inside track. In alluding to different operators, the correspondent of the Journal says :-
"John Perry has an average yield of about 7 ozs. of gold per ton from the Vigra and Clagan; and old Owen Evans gets a constant yield of 4 to 5 ozs. per ton in the Welsh Gold Mining Co's mine, at Ceincech. The last named person is a most unassuming man, but he has given years of study and nights of anxiety to the gold question, and he firmly believés he has mastered it,
From want of the aid which a really practical worker could render, most suhstaritial buildings have been erected, water-wheels and steam engines ditto, stamps and crushers attached, amalganating machines, in barrels, pans, troughs, etc., and a rivulet of mercury has run to waste, in fruitless attempts to catch the gold; mea as able and as keen as the late Sir Robert Peel, have had to do with these works as shareholders and managers, they have brought to bear upon the subject a vast amount of skill, experience, industry and capital. Their only failure was, they did not, as we may say, "chalk their boblins."
There is another veteran in the gold business in Dolgelly ; I allude to Robert M. Roberts, who was connected with the late Mr. Harvey in all his gold researches. The person I have named will tell you that in the Merionethshire quartz, there is a substance difficult to overcome at first, and the presence of that substance is the cause of a large amount of failures. To overcome it is as easy as to 'chalk your bobbins.' They have overcome it, and have extracted gold from all quartz in which it was contained If any director, shareholder or manager of gold mines should be enibarrassed, or wish instruction, I would recommend to consult Perry, Evans or Roberts on the sulyject of guld quartz. I am glad to say they are called upon sometimes to give an opinion. In Dolgelly these opinions are safe to follow. It is not the purpose of this communication to ignore any of the efforts of the eminent men, geatlemen of very great attainments, who are engaged in solving the problem of extracting gold, profitably, in Wales."
An old Californian, well known as a former resident of this city, and onec extensively engaged in mining enterprises on this coast, is also operating largely among the new found English gold mines. He is noticed as follows, in the same communication from which we make the above extracts :-
"I would also add that Mr. Moshetmer has the charge of erecting an extensive series of machinery in three or four different mines: I have seen the castings of 'Mosheimer's Patent,' and from the well known ingenuity and experience
of this gentleman, down to 'chalk your bobbins,' I frinly believe he will overcome every obstacle, and that his reductionworks will be an honor to himself, and a profit to his friends."

From the last paragraph it will be observed that Mr. Mosheimer has devised a new class of machinery for the reduction of quartz and the extraction of the mineral therefrom. From letters received in this city, we understand that Mr. M. crushes the quartz dry; that he has secured letters patent for the same in Evgland, and taken the necessary steps to do the same in this country. We shall proba bly soon be able to give an illustrated description of this machinery in the Mining and Scientific Press.

Coat, has been discovered about 70 miles east of Star city, Humboldt, and parties are now engaged in examining the locality, with the view of learning its capacity and value as a fuel and practicability for working.

INVESTMENTS IN THE INTERIOR.---HOPEFUL PROSPECTS.
It is a significant and most important fact that an excess of about $\$ 10,000,000 \mathrm{in}$ coin has been sent into the interior over, and above cuin remittances from that direction during the past year. The necessary deductions from this fact are that this balance has been absorbed, within the period referred to in the operations of internal commerce, in the expansion of agriculture, the opening and working of the mines, the building up of manufacturing establishments, and such olher uses as are incident to the thrift and enterprise of an industrious and prosperous people.
The rapidly increasing area of our mineral developments, and the new and improved methods now being introduced for the reduction of ores and the extraction of minerals therefrom, together with the rapid formation of new companies for prospecting and working, imparts to this leading interest of industry a degree of excitement and energy rare ly witnessed in any industrial pursuit.
With the incoming of the year we have witnessed the springing up of an eutirely new branch of miaing industry, and one which bids fair to rival in extent and importance either silver or gold. The existence of a copper belt inex haustalle in its yie'ds, and extending throughont the entire length of the State, is now a universally acknowledged fact. The bearing which this new development is destined to exert upon the future growth and prosperity of the Siate is, just now, a theme of most hopeful and animated discussion
The copious rains, with which we have recently been visited, have set to rest all apprehensions with regard to short crops in our agricultural districts, while the large accumulatinos of snow upos the mountains assure the miner that his summer supply of water will be fully equal to the ordinary amount. The failure of the usual supply of water to the miner, in the early part of the seasou has been more than compensated, in the increased facility such lack of rain has given to prospectors and operators in auriferous quartz and copper. With the success of all other branches of industry our mercantile classes have the fullest assurance of an abundant demand for every description of merchandise suit able to the California trade.

A Weathet Propher.-George Shepherd, Civil Engineer is furnishing the London Mining Journal, with weekly pre dictions of the state of the reather, etc. founded on philosophical and scientific calculations, which are attracting considerable attention. In his letter of Jan. 20, 1863, he says :
"I regret that my absence from London on professional business, prevented me from foretelling the approach of the late severc gales, which caused such havoc on our coasts.
With regard to looming events; strong winds will occur about the 28 th inst., also about Feb. 3d. I have already foretold we shall have an early spring ; we shall also have a fine summer and autumn, and weather all that could be desired for the next harvest. But the year 1864, I again repeat, will bring sorrow, perplexity and trouble on the English nation generally. [Perhaps the prophet sees "English Intervention," in American affairs coming up in the early fu-ture-Ed. Press.] There cannot be a doubt but that our winters are gradually improving. How long it will continue to be so we must leave to the wise Dispenser of all things. To all appearances another comet is approaching the sun, and will be discovered very shortly. This, however, I leave to our astronomers, who have more time to search the beavens than I have. I wish I had more leisure for this inter esting subject."

How to Tell tae Valoe of Greenbacks.-Many persons find it difficult to compute the value of paper money when gold commands a premium. A simple and invariable rule to arrive at the value of paper money when gold commands a certain premium is to multiply $\mathbf{I} 00$ by the amount of the premium on grld and divide the product by 100 with the amount of preminm added; the result shows the exact amount of the discount on paper money. For example : Say gold is quoted at 60 cents premium in New York; multiply 100 by 60 and the product is 6,000 ; divide this by 160 and the result is $371 / 2$, which is the exact discount on the paper money, and shows that when gold commands a premium of 60 cents on the dollar paper money is werth $621 / 2$ cents on the dollar.

From Humboidt.-We received a call, on Saturday, from William Holcomb, Esq., of Humboldt, N. T. Mr. H. left upon our table specimens from several of the principal leads
in the Buena Vista. District; among them we notice the Schuylkill, Sargent, Camelion, Comet Cornex, and Mars, The furmer is an exceediugly rich lode, and the speci man before us, which has been subjected to the action of fire is completly coated with silver, that has been brought out by the heat. The claims ahove enumerated are all consider-
ed very valuable, and measures are being taken to have ed very valuable, and measures are being taken to have them thoroughly developed. 'The specimens' before us are unlike those usually found abont Virginia City. They conist, so far as we can judge by the eye, chi efly of Horn Silver, which is usually considered very valuable as a silver ore, and is easily worked. They preseut the usual shades of this ore from green to a yellowish brown and dark blue, and are evidently very rich. We notice very little appearance of sulphurets, except in one from the "magna charta," lead in Santa Clara District. These specimens may now bo seen ut W. P. Denckla \& (Yo., No. 508 Montgomery
Mining in Austria.-The Austrian Government is among the most liberal of the Eur pean Powers, in its of couragement of mining enterprise. The country possesses a large variety of minerals, from gold and the other precious metals, down (or rather up) to iron, and coal, Large numbers of foreigners, (especially Englishmen) aro engaged in mining in that counıry, and extensive developments have already been made; yet there is a vast extout of mining territory still undeveloped. The Governmeat gives to those desirous to engage in mining, important facil ities, and "concessions" or permits to mine, cost but a trifle compared to similar requirements in other European countries. In England, a man who desires to embark iu gole
mining, must first fay down a fee of about $\$ 25$, and then pay over to the Government one twelfth of all the gold produced. This rule, we believe, also holds good in minirgig for other minerals. In Austria, a man pays $\$ 5$ for hif "concession," and but one fifth of the net, instead of the gross produce, as in England.

## dinimg and Scientific 3 ress:

The MNING AND SCIENTIFIC PREAS is publishod at the Exchang Building, Room 27, corner of Battery and Washungton streets san Fran.
cisco, Cal., at FiFTY Censs per mouth, wr $\$ 4$ yer aunum, in advanco. C. W. M. SMITE and W. B. EWER,

Wg execut Engravings, Electrotypes, etc. Copper, steel, etc. STERRotPyng and Elzctropyarr, Designs of every d seription-Buildngs, sketches of Towna, Muclinery, Stamp Dien, Sealn is P'Atnoxs will remember that when we execute engraviugs we will fuse hem tree of charge in the Mining and Sciextime Priss, thus giving the ei vautage of a Wible Circulation throughout the Pacific Coast in the best a ertising Medium to be found mithe country.

## To Printers.

An Intereat in one of the moat flourislaug aud best paying Newn per offices in the mountains is offered for sale on easy termos, 4 rare portunity is hereby presented to any priuter desirous of eitablishing self in a good business in oue of the bealthiest, most thriving and de ful mo
office.

SUuscorribs,-Are you a miner and not a subscriber to id Mintig and Sclevtrifi Press? If so, you are an annu loser of many times the price of of year's subseription, pu tieclarly if you are engaged in qnartz mining. The sid amount of practical information, important to miners mechanics, which is contaiued in a volume of the Press, not be bought from the shelves of any bookstore in the cou try for the price of several year's subscription. Do you en send a paper to the "Old Folks at Home?" If so, and y desire to send important information aud valuable reasi matter, you can find no paper that will be read with so eagerness by them, or one that will convey to them
an account of the real industry of the country 2 s the
 names and four dolumsts, or thoo dollar: for six months, become patrons of the only mining paper printed on the $\mathcal{F}$ cific coast. Those who reeeive a paper with this paragra
narked may understand that $t$ is sent to them for ex marked may understand that it is sent to them for exani
tion, and with the hope that it may so for meet with th. tion, and with the hope that it may sofor meet with approvil as to warraunt their subscosibing for it on once. 1
 the paper where it is not now known, we will, for thept ent, send the Parss for three months even, on the recelpt one dollar, in coin or stamps. It is our belief that no will wish to diseontue the paper after being a coostant re
er of it for even that short perioo.

# SAN FRANCISCO MINING NOTICES. 

ASSESSMESTS LEVIED.
Assessments upon Mining stocks have been levied as fol-low's:-
Garabaldi-Assessment of \$1 per share, levied March end.
Sutro.-Assessment of \$1 per share, levied Feb. 23, pay-
0 March 23.
Silver Quartz Mill Co.-Assessment of 5 per cent. levied Fob. 23, payable Murch 28 .
Helvetia.-Assessment of 25 cts. per share, levied Feb. 7, payable March 10.
Zouave.-Assessment of $\$ 1$ levied Feb. 22, payable Mar.
Rogers.-Assessment of $\$ 5$ per share levied Feb. 4, paypable Mar. 15.
Sum Wright.-Assesment of 50 cts. per share levied Mar, payahie immediately, delinquen's to be suld A pr. 2.
Nupuleon (copper.) - Assessments of $\$ 3$ per share levied Mar. 3. payable iu 30 days.
Golinn Are-Assessment of one dollar per share levied -eb. 24, payable March 26.
Washoe trold \& Silver.-An assessment of 2 per cent.
n capital stock whas lovied Feb. 16, payable Apr. 1.
Rhodes' Diggings.-Assessment of 25 cts . per share lev-
ed Feb. 2G, payable Mar. $\overline{\text { J. }}$
Texas Co., at a Meeting held Feh. 14, levied an assessnent of ous lollar per slare, payable to the Secretary in Virginia City.
Santa Rusa Co.-February assessment of 20 cents per share now due and payable.
Madison Co.-An assessment, two dollars per share, was pevied Feb. 17, payable immediately, at Office, 600 Mer hant St.
Cuion Co.-An assessment of one dollar per share was levied February 16, payable on or before March 25.
Peua Co.-An assessment of $\$ 3$ per share was levied Feb. $\overline{5}$, one half payahle March 1, balance A pril 15.
Kossuth Co., Devil's Gate District.-An assessment of 10 ts. per share was levied Feb. 7.
Constitution Company levied an assessment of 25 cts. per
Peb. 11, payable immediately.
La Pla'a Oro Co. levied an assessment of five dollars per hare, Feb. 9, payable at Office of the Secretary in Virginia City.
La Plata Co. levied an assesment of 50 cts . per share Feb. 2ud, payable at Office of the President.
Alamo Co. levied an assessment of 50 cts. per share, Feb. 11, payable on or before March 20, at 115 Cul. Street San Francisco, or at office in Carson City.
Tucker Co. levied an assessment of 25 cts. per share, Feb. 11, payable immediately at 608 Merchant St.
Hawley Co. levied an assessment of one dollar per share, on Feb. 9, payable on or before March 12, to Superintendant at the mine, or Secretary at Office.
Slate Range Co . levied an assessment of 50 cts. per share, Feb. 4, payable, March 15.
Moss G. \& S. M. Co.-An assessment of 50 cents per hare was levied Jan. 27, payable at 428, Montgomery St., pr to the Superintendent at the mine.
White Cloud G. \& S. M. Co. levied an assessment of 5 cents per share, Jan. 27, payable to the Secretary, at 128. Montgomery $\mathrm{J} t$.

El Dorado G. \& S. M. Co.-An assessment of One Dolor per share was levied Jan. 23, payable to the Sec. or to he Supt.
Gaudaloupe S. M. Co.-An assessment af $\$ 30$ per share
Fas levied, payable on or before March lst.
El Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levied Jan. 27, payable at office on or befora Feb. 27.

Polar Star G. \& S. M. Co. levied an assessment f 50 cents per share, February 4th, payable on or before the 4th of March, at the Uffice in this city or to the Superintendent at the mine in Aurora, (Esmeralda.)
Dios Padre G. \& S. M. Co. levied an assessment of 3 dollars per share, Jan. 31, payable in 30 days, alsu an assessment of 2 dollars per share, payable in 60 days, at office 502 Montgomery street.

Beckwith G. \& S. Mining Co.-An assessment of 25 cents per share was levied Jan. 24, payable immediately.

Sonora Mining Co,-An assessment of 25 cents per share was levied,Jan 23, payable imnediately.

Overman Mining Co.-25 cents per foot, Jan. 29, payable within ten days.
Chs. Caney Mining Co.-50 cents per share, Jan. 21, payable on or befure Feb. 20th.

Sierra S. M. Co. An Assessment of ${ }^{2} 21 \%$ was levie Jen. 22 -payable immediately, at Office 575 Mission St.
Mount Javidon Co,-An Assessment of 50 cents per Share was levied. Jan. 23. payable on or before March lst, ut (Ifice 47 Montgonery Block.
dinatic- Fifty cents per share, pryable at No. 4 Armory Ihall, Sun Francisco, or to the Superintedent at the Nine. Hattie G. \&.S. M. Co.-Whirty cents per share, levied Jan. 31, payble at Office iu sim Lirancisco, or at the Mine. Male is Norcsoss-A Asessument of T'en Dollars per Share. levied Jan. 31 - payable at the Office in this city, or to John Skae, at the Mine, on or before Feb. 25.
Mina Prieta S. M. Co.-An Assessment of Five Dollars per Share was levied, Jan. 31, payable on or brfore March 5th-at Office, cor. Montgomery \& Jackson Sts.
Recorder Mining Co.-An Assessment of One Dollar per foot was levied Jan. 19, payable half on or before Feb. 18, and bulance on or before March 20.
Hale \& Norcross S. M. Co. have levied an assessment of $\$ 5$ per share payable on or before Jan. 26 th.
Martin White. - An assesement of 20 ets. a share was levied, Jau. 2.
Oriental G. \& S. M. Co.-An assessment of 50 cts. per share was levied. Jan. 14. payable at Office, cor. Sutton Avenue and C St., Virginia City.
Baltimore America Consolidated.-An assessment of 50 cents per share was levied, Jan. 5.
Savage.-An assessment of $\$ 35$ cents per share was levied, Jan. 7.
Hawley,-An assessment of $\$ 1,00$ per share was levied Feb. 9, payable March 12.
Cole S. M. Co,-An assessment of One Dollar per share was levied, Jan. 10, payable, Feb. 1.
United States M. Co.-An assessment of six and twothirds ets. per share was levied Jan. 10, 1863, payable to the Superintendent at the mine, or to the Secretary, Rooms 7 and 8, Government House, San Francisco.
Sierra Nevada S. M. Co. levied an assessment of $\$ 15$ per share, Jan. 15 -payable Feb. 18.
Lady Bryan.-An assessment of 70 cts. was levied, Jan. 13, payable on or before Feb. 16.
Ida G. \& S. Co. (Russ District)-An assessment of $\$ 1$ was levied, Jan. 14.

## assessment saldes.

Sales of Stock for non-payment of assessments are advertised to bo sold.as follows :-
Oriental Tunvel Co. will sell, on Saturday, Mar. 28.
Mars will institute proceedings against delinquents, Mar. 16 th.
Planet will institute proceedings against delinquents Mar. 16 th.
Moray Co. (V. City.-Suits for delinquent assessments will be commeaced, March 14 .
Michigan Co. (Gold Hill) will commence suits for delinuent assessments, March 16.
Lady'Bryan G. \& S. M. Oo.-Shares of delinquent stockholders will be sold at auction for assersments, at No. 400, Montgomery steet, on Jan. 27.

## general notices.

Yellow Jacket.-Corporate Deed now ready for signature t office of H. G. Maynard, Gold Hill, N. 'T.
Jenny Lind (Esmeralda.)-Owners of ground in this Cot are requestes to call and sign deed of trust at 608 Merchans St.
Mount Hope Co.-Persons claiming stock are reqrested present title papers for examination till $M$ arch 16 .
U. S. Mining Co.-All persons claiming stock are requested to present title papers for examination at Nos. $7 \& 8$ Government House.
Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., standing in the name of J. B. Magee-also 20 feet, standing in name of W. Williams. (See 'I'erritorial Enterprise.)
Ashland $\mathrm{Co}-\mathrm{L}_{\mathrm{L}}$. A. Gould, in the name of the Moss Co. notifies the Ashland Co. that their westerly drift has cut the Lambledge, in the Moss Co.'s ground, from which the Ashland Co. is forbidden to extract any valuable metals.

Coso Silver Mining Co.-The Office of this Company has been remored from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.
Ther Sweezy,Co., Gold Hill, give notice that Baltic

Company have wrongfuly claimed and worked their ground since July, 1860.
The chansy Rock Co., lying next west of the Tirginia Co. claims have notitied the Ilazel (ireen, lingley and Bt ach di Paxton Companys that they are tresspassing upou the Chimuey lack Co's groumd.

## MINING AND SCIENTIFIC PRESS.

THE ONLY MINIVG, MECHANICL AND SCIENTHEIC PAPER ON THIS CONTLNENT.
THIRD TEAR: VUIUME VI.-NEW SERIESI
A now volume of this extencively circulated paper commenced Sept. 11,
1862. It is intended that every number shall bo replete with informmion 1862. It is intended that every number shall bo rephete with informmion
concerning Miuing, scientifi, Mechanical und Iudustriul pursuits, torether with several original engraviugy, of vew juvedious, etc., prepared expressly for its columns.
Thls pupur is devoted to the above purposen, together with the interests of science, Arts, Akriculture and Commerce, tud any general infermation or to spure of pains or cxpensu in mulesug it equal in interest and valuable iuformation to uny paper yet published.

## The Mining Interest /

Will find it of grent ralue, as it will contain all tho newr appertaining to Mining, the prices and sales of Mining Stocks, new invelitionh of Alothinery daptel to that purpose, and of uvery thang generally that may be of service to tho Miner.

## The Inventor I

Will find it an excellent medum for the purpinse of bringing his invention into notice, of ascertaining the progress of invention in this and other
countries, and nlso of receiving any informatim that may bo vecessary in, obtaining his patent, the proprietor having had great experience as a latent Agent, together with facilities at Waslington that cuable him to ob. ain Patents with dispntch.

## The Mechanic and Manufacturer !

Will be greatly benefited by its perusal, as each number will continn rera eral original engravings of new machines and inventions, together with $\bar{J}$ large nmount of reading mattor appertaining thercto. Wo nre coustante
receiving tho bost scientific journals from atl quarters, from which wr receiving the bost scientific jourvals from all quarters, from which wr
shall continue to extract whatever may be of benefit or interest to oushall cont
readers.

To Chemists, Architects, Millwrights and Farmers !
This journal will be invalunble. All new discoveries in Chemistry will be given, and a large amount of information of great service to Architects and
Sillwrights will be found in our columns. The Farmers and Planters will not bo neglected, engravings will be given of agricultural implements, and the farmiug interest generally will leamply discussed.

## Termas.

To maill subscribers:-Four Dollars per nunum.
Club Rates.
Fite Copics for Six Monthe, $\$ 8$.
Ten Copies for Sir Mouths, \$16.
ren Copies for Twelve Months, $\$ 30$,
Eifteen Copies for Twelve Months, \$44.
Twenty Copies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yenrly subscriptlon is muly $\$ 280$ Specimen Specimen copies will be aent gratis to any part of the country.

## EWER \& SMITEX, Pnblishers,

Room 27, (formerly) U. S Court Building, Corner of Washingtrn and Ea
tery str3ota, sin Franciseo.

## DR. VAN ZANDT,

## Consulting Physician and Surgeon, OFFICE:

Corner of Washington and Sansome Streets.
The Great Success of this $\overline{\text { Century, as an Aid to Practi- }}$ cal Medicine.

The Mystetious Problem of Material Nature, Electricity Made Subservient for the Cure of all Nervous and Spinal Diseases
THAT THIS PRINCTPLE, successfully applied to diseased states by of the system, is to prove the great songht-for necessity, Jonf wanting derangemula of the human body It is a part of the great principle of viinlity knowr ns uervous influenco and nccessarily must have much to do in obrjating diseased action.

Too Much Cannot Be Said
In its praise ; for it is highly proliable that in heatth there is an exact equllibrium of tho ELfiCTRTE principle; aud should this secret and hidden equipoise nf heaith be brose positively cbarged-is not the current broken, and trified when it should be positively co inger-is not the current broken, and and in order that the tissues of the body should be susceptible to remedial agents we must first restore and

Awaken the Magnetic Mifo Within Us,
The spinal and sympathetic nerve systems. Believing as I do most firmily in this great magnetic or clectrical intensity of tho earth, with its influence upon our bodies in health and disease, fam led to take alvantage of the
press, through which to awaken attention to the subject, that good may press, throug
come to all.
W. Thoalas, Plaining Mill, California street, facing the Mission IR. R
m1
Cepot. Snn Francisco.

TURNER, MARAH \& OSGOOD, Successors to C. O. Turner \& Co., importers
1 of Wines and Liquors, S. E. cor. Front add Sncramento sts. ml
DR. J. B. BEERS-Dentist, 617 Clay street. All operations on the teeth
Winhenam FelL, Notary Public fnr Storey County, N. T. Cummissioner of
my
Deds for California Virgina City, N. T.
Pumar, IJanscom \& Co. Gnldm State Foundry, and Machine Works
(Formerly Sutter Irou Works.) First street near Market.

## MINING--BOGUS AND BONAFIDE.

Investments in mining property are not necessarily so hazardous as most people imagiue. In opening up new mineral regions, and in evitering extensively upon fresh adventures iu old mineral fields, speculation will unavoidably creep in, to a greater or less extent. It is well, perhaps, that it does so. Man is naturally indolent, and unless the imagination is brought into pretty active play, as a stimulus, it is seldom that he accomplishes much. This confession may be somewhat humiliating, but it is nevertheless true Speculation-the desperate chances of large possible gain, combined with a natural desire for adventure, will often lead men of means to invest in miving operations, when all the calm matter-of-fact reasoning of the over cantious, will utterly fail to induce them to invest a dime. It is by such stimulus that almost all important mineral developments are brought out ; developments, which, if left to the ordinary routine of business, wou'd have continued hidden away in the secret recesses of the earth, for yeals and perhaps for centuries. So far, speculation is legitimate, and beneficial in enlarging the domain of industry. Individual losses may occur-they must, as an inevitable consequence; but the community is benefited, labor is provided for, commerce finds new channels, and the car of progress receives a renewred impulse in its onward course.
Here speculation, per se, ceases to be useful, and should blend in productiveness, by lending its aid to the actual development of such mines as promise a real value; while all others should be ignored. If the speculative world would be guided by such a course of operations, the public at large would not hare so unfavorable an opinion of this class of mining as is now geuerally entertained. That it is not so directed al all times is a lamentable fuct; but one fur which the complaining public is quite as wuch to blame as the speculators themselves, as will hereinafter appear.

Speculative mining is confined chiefly to great commercial centres, where capital aggregates. That class of mining leads, in this State, may be found in greatest abundance on Montgomery street, is this city. The radiating point of these leads appears to be located somewhere between $W$ ashington and Merchant street. They "crop out" at intervals all along the first named thoroughfure. Their "indicaticns" are distinct and unmistakable to the intelligent observer. The managers of this peculiar class of mines are usually denominated "brokers." Now brokers are a very useful and almost indispensable class of operators in all large centres of business. The community could not well do without them. Those of whom we are now writing may be divided into two classes-the mining broker, and the markel broker. Both, we assume and hold to be honest. The former is the one who calculates the merits or demerits of a mine independent of the market. The latter is one who studies the market independent of the value or prospects of the mine.

Now, if "operating" in these mines were confined exclusively to the brokers themselves, and on their own account, it is evident that but little progress would be made in advancing their shares. Of course the chief business of the broker is to buy and sell for his client. Now it lies altogether with the client which class of brokers le shall employ. If his object is a legitimate operation, he will employ the one who prefers to operate on the actual merits of the mine. If otherwise, he seeks out the less concientious agent who goes upon the street to "bull" and "bear" as the case may be, and put moneyin his own and his client's pocket, no matter at what sacrifice of principle. Such transactions are but little better, in their moral aspect, than the act of getting up a purely bogus mine, and selling in the market that which does not and cannot have a value. This class of operations are detrimental, in the highest degree, to all legitimate mining, and should be frowned upon by the entire community. The wrong in the case is usually attributable to the outside party, who if unsuccessful, is generally the first to complain of mining speculation. "Bulls" and "bears" are, however, sometimes serviceable, if they do not carry on their operations too steep. They are often the life of the market, and serve as the needed stimulus to action, not unfrequently being the immediate means, of bringing to life and activity mines of actual merit, which might otherwise have been allowed, perhaps for ages, to slumber in inaction.

The condition of the mining market, at the present time is cousid red by many as somewhat uminous Some confidently predict "a crash ahead," with "los and suffering' in store"-""a revulsion which will prove temporarily ruinous to our prosperity." We are not of those who adopt extreme views on either side. While we admit that an undue state of excitement-exists in the community we still have no fear of any serious depression-anything at all commensurate with the present buoyancy of stocks. There may indeed be such an over eugerness to invest as to give opportunity for he introduction of purely speculative or absolutely bogus mines, but such cases will be rare indeed. Our field for mining operations is too wide, too rich and too varied to nake such operations productive, to any extent. It actually requires less labor, and less financiering to hunt up, and place iu the marlet genuine operations with fair prospects of success, than it does to resort to a purely fictious basis. l'o say nothing of the splendid results already realized from uumerous first class mines, there are even now so many, wh ch were at first regarded as little better than "wild eat," which are now turning out better thun was anticipated, that even the minst cantous, are beginning to admit that we have too real and solid a basis, to be seriously affected by any number of unproductive adrentures $w$ hich present indica tions may warrant us to anticipate. The times however are somewhat propitious for intlated temporary operations, and it would be well for our citizens to act with more caution than heretofore in making investments. They should enquire more carefully into the merits and demerits of the mines in which they would invest, and exercise greater caution in the selection of agents, making careful enquiry as to their facilities and inclination 10 act as mining or market brokers. The same caution should be observed in the organization of companies, eschewing all operations not founded upon, at least, a fairly promising basis.
Mines under bona fide management, in good districts, with fair indications for future improvement and progress, must surely be worth investing in. Progressive mines are ever the most produclive of wealth. It is this class of mines, almost exclusively, which, to-day, having only a nominal value of a few shillings or a few dollars a foot, to morrow advance to a comparatively high figure, by some fortunate development, thus doubling, trebling or increasing ten or a hundred fold in a single day, the amount invested. The effect of an advance in one such, it will be readily seen, may more than compensate for a total loss in a great num ber of others. If you invest $\$ 5$ per in ten diffierent companies, and only one of these goes up to $\$ 100$ per foot, you have doubled your entire investment, and bave your chances still left in the other nine. The Mining List which we publish on the 6th page of this paper, exclusive of those of known and acknowledged value, reaches nearly 200 in number; we will call it just that number. As progressive mines, occupying a fair position as legitimate adventures, $\$ 5$ per foot, of assessments, ought tu pretty deffinitely determine whether they possess sufficient value for legitimate and extensive mining operations. Now if only 20 of the 200 prove reliable, and advance to a value of $\$ 200$ per foot, the total amount of investment will be doubled. If two or three of the number should reach the standard of "first class, "the proportionate increased value of the investment would be vastly increased. Now can any person with a knowledge of the brilliant successes and minor, yet important developments already made, entertain for a moment the iden that the list we give will ever be cut down to coly 20 productive mines? Yet teu only, would save us from acual loss !
As that list now stands, either the Ophir or Gould \& Curry, aloise, is worth more money than the entire'amount which has, up to this date, been expended on all the mines which appear in our list ; and were every other mine on the list to prove a failure, except the two last mentioned, the community, as a whole would be a gainer in wealth. Inconsiderate specalation may be carried to an extent which will work a lomited injury to a few individuais; bat it is idle and pre posterous to talk about anything like a general collapse in the incorporated mining interests of the State.

Efforts are being made in Australia to acclimatise in in that region English swans, hares, pigeons, grouse, etc.

## WORDS OF ENCOURAGEMENT.

It is contrary to our usnal custom to copy commendatory notices from our brethren of the Press, or to publish exhacts from the numerous letters we receive, whose writere are so kind or so partial as to make especial and favorable men ion of our efforts to furnish a paper which shall meet the wants of the mining public. Our course, in this respect, perhaps, is not so much the result of our innate modesty, as the couciousness that, notwithstanding the partiality of our correspondants, we really think the Press is yet far short of what such a paper should be. Although our circulation and other patronage is constantly increasing, it has not yet arrived at a point which will enable us to devote that time and money requisite to produte paper which shall properly represent the great aud important mining interest of the Fa :ific const. Our sheet is too small and the amount of matter to which we are limited, is quite too litule to give the paper that rariety and comprehensiveness, which the importance of the interest we represent demands. We hope, however, in a short time to be able, from the increase of our circulation and general business to do ourselves justice and to furnish our readers with a journal, which shall fully merit the good opinion which they have so generally expresseb with reyard to our efforts. We would take this oo casion to express our thanks to thos who have iuterested themselves in extending the circulation of the Press, both in this city, and throughoat the State and adjoining Territa ries. We append extracts of several letters, which, with others, we have received during a single week, to the write ers of which we are entire strangers :-
A subscriber near Carson City writes :-"In conclusion permit me to remark how well the mining interest of Califormia and Nevada is now represented by your paper, and that I hope it will soon be the means of communication and interchange of opinion betwe members of the miniug profession. Individual experience is always more or less limited; but if each mill-man or miner would but make known the resulte of this experience, a mass of information would be obtained, of the utmost value to all."
An enquiring correspoudent from a smull Mining Camp in Amador Co., writes :-"I have seen repeated notices of your publication, in the newspapers, but have never met with a number of it. It is doubtiess such a paper as miners need. Will you therefore be kind enough to send me a few numbers of it, it order that we may learn some-
thing about its character, terms, \&c.?" [The papers have thing about its character, terms, \&c.?" [The papers have been duly forwarded as per request.]

A gentleman in Aurora (Esmeralda) where we already had a very good circulation, writes as fallows :-
"Messrs Ewer and Smita :-I happened to see a copy of the Mining and Scientific Press a day or two since, and concluded to send and subscribe for it. But thought I wuuld try to get a few names to join to my own for the sake of convenience in sending. The result was that a trial of an hour or two succeeded in getting 21 names, the money for which I herewith remit by check on W., F. \& Co.
I hope to add yet more names to the list in a few days: I like the paper and wish to encourage it."

The Los Angeles Minks.-T'he papers of Los Angeles are giving encouragiug accounts of the mines in that coun ty. They are going ahead rapidly in the Soledad districtp Fine gray sulphuret of copper has been struck in the Mare shaft at a depth of 45 feet. The Santa Clara Company have found rich gold quartz on the Eureka lodes The Los Angeles Consolidated Mining Company, having completed the assersments on their fifteen lodes, will soon be ready for a most thorough work. They are now sinking upon the Euv reka, first South Extension. It is expected that they will reach the main vein in a few weeks. The outcroppings and foat rock in the extension above named, assay equal to the rock taken from the discovery claim.

The Humboldr Mines.-Tbe success of the mining interest of the Humboldt district, exceeds the expectations of the most sanguive. We look for important developmente from this region during the coming summer. Besides gold and silver, there has been found in this district, coal, salts, saltpeter, cement, cinnebar, and a species of building rook said to be superior to anything on the continent, in quality and the facilities of quarrying and preparing it for use.

THE IMPERIAL SILVER MINING COMPANY OF WASEOE.

This company, which has now been placed in the first rank of dividend payirg companies, hats recently been formed by a cousolidation of the Washoe Guld and sitver Mining Cu., No. 1 ; the Ilolnus Co., and the Alta Company. The Company, as now organized holds $183 \%$ teet of ground on Gold Hill and ownes the Rock Point Mills, which cost $\$ 250,000$ and the Novada Mills, which cost S150,000. The capital stuck cousists of $\$ 1,000,000$, divided into 2,000 shares at 今jub each. No asses-ments have ever been cafled for. The entire expense of opening the mine and constructing the mills, etc., has been drawn from the mine itself, as in, the case of the Ophir. The dividend which was declared, a few days since, $23 / 4$ per cent. for one and a-half months, on the capital stock, is equivalent to a monthly dividend of $\$ 100$ per foot. This dividend was independent of a reserve of $\$ 10,000$ toward a contingent fund. The company commenced crushing on the 15 th of February last. Simuel Merritt, M. I., is President of the Company and C. T. Hupkins, Secretary. Office at 405 Front street.

Virginta and Truckre Rallroad.-A bill creating the "Virgivia City and Truckee Railroad Company, with a brauch to Carson," was passed at the late session of the Nevada Legislature. John H. Atchinson, Gov. Johnson, Theodure Winters, and other substantial citizens are amoug the corporators. John F. Kidder, ongineer of the road, 18 in Virginia City, and will immediately begin a preliminary survey of the line.

## GENERAL MLIVIVG STOCK REPORT,

## REPORT UF SALES

At the
..



 Weeh at .h dight declame.
laty Bryan hondin suffered much fluctuathan ; commoncing tho week

Whe Heat after experioncing considerable tluctuathom clused the week at

We sulybin our usent record of transuctious

## TRANSACTIUNS IN SHARES, FOR THE WEEK

## NEVADA STOCES

Ophir- 72 at $\$ 2500 ; 48$ at $2450 ; 12$ at $2440 ; 12$ at 2435 Potusi-50 at si400.
Chollar-60 ut 8455 , br 30 de ; 20 at 470 , hr 30 ds ; 80 at $43 \overline{;} ; 80$ at 460, br 30 d s.; 20 at 425.
Chs. Cuney-2 at $\$ 10 ; 5$ at 77 t .
Burning Huscow-20 at $\$ 130$, br 30 ds .; 58 at 120; 50 at 12213 ; b0 at 125; 864 from 100 (a) 140.
Cule-20 at $\$ 16$.
Lady Bryan- 35 at $\$ 15 ; 100$ at 20 , br 30 ds.; 50 at 12 ; 333 from 13 (c) 20.
Adriatic-60 at $\$ 10-15$ at $8-15$ at 915 ; 181 at at 9 .
Burnside-15 at $\$ 40 ; 13$ at $41 ; 10$ a $30 ; 22$ at $39 ; 20 \mathrm{frm}$ 39 to $39 \frac{1}{2}$.
Nevada-21 at $\$ 15 ; 25$ at $17 ; 10$ at $16 ; 20$ at $15 \frac{1}{2}$.
Sevage-10 at $\$ 1300$, b. 30 ds.; 2 at 1400 b. 60 ds.; 5 at 1390, b. $1010 \mathrm{ds} ; 10$ at 1380 , br 10 ds .
Desert-80 at $\$ 9 ; 25$ at $61 / 2 ; 25$ at $7 ; 62$ at 6.
Laurel Hill- 70 at $\$ 6$.
Reese River-172 at $\$ 6 ; 562$ at $61 / 2 ; 540$ at $7 ; 10$ at 64, Meredith-40 at $\$ 45$. Iowa 8 at $\$ 100$.
South Burn-iee-10 at \$9. Mount Davidson-10 at 7.
Forth Patoas-5 at 30.
Forth Patoas-5 at 30. Cedar Hill I'unnel-10 at 6.
Sierra Nevada- 10 at 75 . Sacramento- 5 zt 60.
lowa-8 at 100 . Norton 25 at $20 ; 25$ at 19.
Annie Laurie-200 at $\$ 1$.
Zouare-10 at \$16 Ragred Pat-100 at $\$ 1$
Golden Cross-10 at $\$ 15$. St. Louis- 160 at $\$ 2$. br 30 ds Rose, (Humboldt) 25 at $\$ 100$. Hule \& Norcross, 20 at 800 Esmeralda stocks.
Wide West- 3 at $\$ 370 ; 5$ at $380 ; 7$ at 420; 5 at 395; 10 at 400; 51 at $415 ; 10$ at 410; 5 at 412; 20 at 430 , br 45 ds . Antelope- 15 at $\$ 310: 4$ at $306 ; 10$ at $380 ; 10$ at 320 , s. $30 \mathrm{ds} . ; 10$ at $32 \overline{5}$, s. $30 \mathrm{ds} . ; 5$ at 350 , br. $30 \mathrm{ds}$.5 at 350 ; 15 from 333 to 355 .
Silver Hill-20 at $\$ 55$, br 30 ds. Gov. Nye, 65 at $91 / 2$.
Bumboo- 5 at $43 ; 10$ at 50 , br. 30 ds .
Utah- 10 at $971 \frac{1}{2} ; 40$ at 95 .
Utah-10 at $971 / 2 ; 40$ at 95.
Pond-2 at $\$ 110$.
Esmeralda-13 at 50. $\quad$ Coso-16 at 20. coso stocks.
Josephine- 3 at $\$ 22 \frac{1}{2} ; 25$ at $23 ; 16$ at $24 ; 10$ at $251 / 2$ 10 at $27 ; 10$ at $271 / 2$.
20 at $16 ; 25$ at 15.
COPPER STOCKS.
Napoleon-4 at 24.
VIRGINIA CITY sTOCK LIST.
[Corrected Weelly for the Mining and Scientific Preas.

|  |  |  | Ask'd |
| :---: | :---: | :---: | :---: |
|  | 10 | Leun.................. $\$ 100$ |  |
| Allcu..................... 65 | - | La Crosse.................. 10 | 12 |
| Alchisun . ............... 150 | - | Lubrting. ................ 11 |  |
| Aloe |  | Massil 01 |  |
| Belvidert .............. 20 | ${ }^{25}$ | MeBee |  |
| Baltre.................... ${ }^{16}$ | 20 | Mill | 70 |
| Brrdsail ................... 40 | 45 | Mary Alli | 25 |
| Bullion (cuasolidateu) ... ${ }^{40}$ |  |  |  |
| Burnside ............... 46 | 50 | Monarch | 20 |
| Burmig Muscuw ........ 1205 |  | Maulison. | 20 |
| Beach \& Paxtun . . . . . . . . 225 | -- | Mobegath ................ ${ }_{5}$ |  |
| Ballimure |  | North Americ.u.......... 7 |  |
| Bald Eagle. |  | Nevada |  |
| Bloumiugdale |  | North Uphir, (u) |  |
| Blue Ledge, (Heese Diver) - |  | Orreatal.. |  |
| Buchavar |  | Usecolat................. 12 | 15 |
|  |  | Pride ot the West | 125 |
| 3rumeh Mint ........... |  | Pioneer |  |
|  | a | Pride of Washoo ......... 30 | 35 |
| Caldedouia .............. 15 | 20 | Poytor |  |
| Cumet (simpsou's Park). |  | Philadelphi |  |
| Cone ................... ${ }^{15}$ |  | Reeurder.............. 20 |  |
| Consuliduted Cedar Hill... 4 |  | Smita Rita | 70 |
| purgan. 5 | - | Summit, (uoinio |  |
| Day ton Compaly |  | Swecry |  |
| Ivecatur. |  | st. George................ 4 |  |
| Dus |  | Sierra Nevada | 17 |
|  | ${ }^{6}$ | Sielra | - |
| ElWoruds................ 70 |  | Sacramentı .............. b3 $^{\text {a }}$ | 65 |
| Eureka............... ${ }^{40}$ | 45 |  |  |
| Eve ug siar Argento inis Empire Co. (Spring Vul.) |  | Shamruck |  |
| Furview ................ 50 | 55 | Texas... | 10 |
| Goverıar Ny | 9 | Union (Vreginia District) |  |
| $\qquad$ 5 |  | U. S. Muing Compray |  |
| Gulden Fira. |  | U. S. Tuunel. | 8 |
| Gutheu Eagie ............ ${ }^{10}$ | 12 | Uncle Sam |  |
| Hazel Greeh............ 5 |  | Utuh. |  |
| Harrisou, Vurginia locorpo 25 | 30 | Virginia. |  |
| Harrison, San, Fran. incor. ${ }^{7}$ | 8 | Washington ............. 12 |  |
| Hawkeye |  |  |  |
|  |  | Yellow Jackect............. ${ }^{20} 25$ | ${ }^{25}$ |
| frvius....................... - | $50$ |  |  |

## WASHOE STOCIS REMARIS.

For the week eudug \$1.urch 28 Lh 1863.
[Couphen fros tins Daly [mikiturial Entemplues.]
The bunimess of the just week hin beed large and generally satisfuctory.

 Grass Valley, Burnhy Muscow, Barnide, Labouring, Burcka, Uverman, Belelecr, Leoll, l'ulut, l'thees, Eutaye, tic.
Recee River stack to berng dealt tu spariugly. $\$ 30$ is offered for Magonio,
 Guld Hill stocks are still meetug with marked favor.
The Lady Bryau bin berin the charf object of uthaction duriag the week. Tou bew futereot whit segard to this mine has been cased by a strike of reld rock, much restmbling zud class Uphir. This stuck has gradually udrabced during the past week from $\$ 10$ to 817 , wt whith lutier tigure 10 chosd with an upward teudency. Sio wisto generally usked.
Gruss falley, wheh has been favorably operated upou by the ChollarPotoai declsten, trasually advancent from $\$ 10$ to $\$ 36$ atd $\$ 30$, which latter figure it reuched on the $2 \$ 1 \mathrm{~h}$ iabl. Yrom that lime it comantuced to deeline aud at the present cluse of the weet it may be quoted at $\$: 20$ @ $\$ 25$, with a downward teudency.
Burning Moseow, was in the market in small lots on Wednesday, at $\$ 200$, without purchasers. It was quoted on that day at \$100. Oll Snturday it hall dec limed to $\$ 160$, yet it is still Leld ubuvo quotullous at the bay.
Sucramento bis beon somewhat variable duriug two week. It was offercell liberally at $\$ 60$ (a) $\$ 65$ un 'tuebuay, without takers. It improved slight$y$ on Weluesday in cunsequence of orders fiom below, and still further udyances are reported to diy. It may huw be quoted firm at $\$ 60$ with demand. Miltus is agaiu liudiug its way futo market, uut is held at $\$ 80$ (a) \$95. Suata Rota is iu light demind at au advance. It mity be quated ue $\$ 65$.
La Conuse, wheneyer offired at low rates is elgeriy caught up.
Bloomingdale is in request at $\$ 4$ @ $\$ 5$, und is musketable at these figurea. Orieutal has eumewhat lost fuvor, which has been galned by the Durgan be elder title. The latier is saituble at from $\$ 5$ (0) $\$ 8$.
Utah is iu market in anail lots and is quotable at $\$ 45$ @ $\$ 50$.
Bullion is saleable at $\$ 40$ @ $\$ 45$. Belcher is advatuciu!.
Ei Durudo is rapidly gaiuing in the maiket and is leld at $\$ 90$ to $\$ 100$.
Walsun, the new consulidution north of the Madison, is held firmly at bealthy rates. There is a light demand for it at \$8 (3) 10 , winls lithe or uno ia markot.
Purviuw is readily purchased at $\$ 4 \overline{5}$ (a3 $\$ 50$.
Luboring, Guld Hul, hus beva in request all the week at \$10 (9) 12 , and 200 ut 300 liset have changed hands at these ligures. The company ciaims Jelge, if auy thate be: between the Union und Xellow Jucket.
Eurskit. Gold Hill has wot fluciuated during tho week. It is quoted at at $\$ 35$ @ 40, whin as madoy buyers as sollers.
Overmau has gahed slowly siluce Moudav and cannot be quoted at less than \$85. A large number of shares were sold during the weak at $\$ 30$ (a)
Belcher. Gold Hill, has steadily adranced and cannot be quoted at less thius \$140@150. It is held firmly at these bigures.
Galedonsa Tumel, Gold Hill, has tabsu a stride upward, and is in request t
Very fine specimens of ore aro being tuhen from Massillon, at Gold Hill, which bave vecushoued consideruble comment, and threaten of a suit with La l'mat Uro.
Kuuse haver stock is being dealt in sparingly ; $\$ 30$ is offered for Masonic, Lander Ledge, and liomet and Blue Lead are saleablo at variabio rates.
Towa is marketable at a shade below san Francisco ligures ; $\$ 110$ is offer-
Iowa is marketable at a shade below san Francisco ligures; $\$ 110$ is offer-
od.
Jadison is again finding its way into market at $\$ 22 @ 25$, with little or no equest at these rates.
shamrock muy bu quoted at $\$ 12$ © $\$ 15$, with little demand.
Birdsull is oliee ed in small lots at $\$ 45$, wat is dealt in syaringly
Fur Beach 8 l'axtun $\$ 225$ is olfisred tor lar'go lots, and $\$ 350$ ( 43400 is asked.


bullun is saluable at $\$ 42$ (a) $45 ; 32$ leet suld to- day at these figures.

## Esmeralda stocis list


transactions or the week
Bodie, No. I, 186 at $\$ 19 ; 100$ at 18; 12 at 17.
Bodie, No. 2. 186 at $\$ 20$ Ural, 8 at $\$ 500$.
Utah, 10 at $\$ 021 / 5$. Bunker Hill, 25 at $12 \%$.
Golden Cross, 10 at $\$ 25$. Wyoming, 25 at $\$ 25$.
New Esmeralda, 50 at $\$ 5 ; 100$ at $\$ 61 / 2$.

## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO



## TEATMENT OF PYRITE ORES.

A patent has been taken out in England by J. Longmaid, for treating pyrites and other ores as follows:

The ores are first ground so as to pass through a sieve having about one hundred holes to the square inch. They are then introduced into a furbace where two processes are being constantly carried ou with the same heat. The first part of the process consists in the calcining of the pyrites, so as to reduce the sulphar in them to about five per cent.; and secondly, the decomposing of these calcined ores by common salt. The ground ores, when first placed in a chamber of the furnace, evolve sulphurous acid, which passes off into another chamber, where it is conserted into sulphuric acid

These calcined ores are now withdrawn, mixed with about five per cent. common salt, then placed in another chamber of the furnace where they are reduced. Ated obtain either the iron, copper, silver or tin which sraelted to obtain
may be in them.

## A Pearl of Great Price.-In the Loan Collection re-

 ently exhibited at South Kensington, London, was a pearl hich is believed to be the largest now known. Its weight three ounces; it is two inches in length and four in cirumference; its sides are nearly straight, somewhat widenng toward the lower part.carries it to a point between C and D streets. The work goes on day and uight, three shifts of hands being employed

The Josephine Company, of the Coso District, should be classed among dividend paying companies. The divid end of this company was paid on the 24th ult, of $\$ 1$ per share. The capital stock of the company consists of $\$ 1,200,000$, divided into 4800 shares of $\$ 250$ eacl.

Treasure.-The total Shipment of Treasure by the Orizaba on the 3 d inst., was $\$ 1,104,699$ 74. Of this amount



Hariug been connected with the public works of the State of Ohiu for 20 years, and the public surveys of the State of Califorvia for 7 yeurs. ALSO
state locating agent. 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Aere.
Torms-Twenty per cunt in eash and the balance on $n$ reellit uf several years.
olifice : Sicound thar of Expess Building, N. E. cor ner of Stontgomery and Califoruias streets.

## HAYNES \& LAWTON,

 mporters and dealers inCROOKERY, GLASS WARE,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery, CLOCKS, Silver Plated ạnd Britania Ware, ETC., ETC., ETC. NO. 516 SANSOME STREET, [CORNER OF MERCRINT,]
घ016 Shar Fraxchagea

## Attention! Attention!



Tho Occidental IIotel Open for the Reception of Grests.




News Stand,
CABINET FOR MINERALS;
A Branch Tulugraph oalice, Conucetiog whis ull the liven throustioutho country LEVIS LELAND \& CO-,
San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC!!

A. $\overline{\mathrm{OH}} \mathrm{LER}$,
importer of every description of
Musical Instruments \& Musicul Merchandise SHEET MUSIC \& M'LSICAI, BOOKS.
GENUINE ROMAN STRINGS, \&e.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstrong Pianos.
Wherever the einstruments are known they RANK AS THE FIRST AND BEST Instone, delicacy of touch and durability. All the leading Musicians of the country have teslified 10 their superiority. A. Komler, agent fur tho Pacinic Coast.

MELOIDEONS AND HARMONIUMS from thr celebrated manufactory of

MASON \& HAMLIN,
Warranted saperior to all cthers.
Ren. Sead for a cistalogue and Prico list.
A. KUBLan, Ageat.

To Mill Owners.


 and h., ars ated in the sitme capacity in Gold Mines in this
state for the pist soven years, Ho has had much expeHence in cornwall, as an Assaycr, a Machinest,
Hramklimant in Surveyor and an A Asorter of Copper or the puxiumu he sumples.
 THEN THIS! Comet Illumitating Oil

## Manurictured exprety for tanford Bro

Brand of Kerosene
is warranted freo from Camphene, petwicmin,
uther explosive material, and is the
BEST FAMILY OIL IN THE MARKET. STANFORD BROTHERS,

3ut Beactung für erffinder.
Erfinter, meldye nidyt mit ber englijdjen Spradje befant finb, tömen ifre Mit. thumgeneil in ber beutidjen Spradie maden Stizzenvon Erfinoungen mitturzen, Dentlid gejdriebenen Bejdreibungen belicbe man gu aboreffiren an. J. Shiversmith. Exebnngo Building, Roon 23.

## Gird's Budding Knife,

$|$| T |
| :--- |
| In |
| In |
| de |
| 1en |
| so |
| so |

SPECIAL NOTICES.
Office of the Sam Prancisco Gold and Silver Mining Company, San Francisco, March 16, 1863. The Annual Meeting of the above named Corpanay will be held at the Company's Office, Niv. 7 Moutgomery Block, on Monday, dpril 6, at 1 o'elock, P. M. Mar. 16-td $\qquad$ J. H. BLOOD, Sceretary.

Office of the Tennesee Gold and silver Miding Compuny, Snu Francisco, Marcls, 16, 1863.,The Annual Meetiog of the Stockboliters of the above named Company will b.3 held at the company's office, No. 7, Montgomery Block, on Monday, April 6, 1863.
mar16-td
J. H. BLOOD, secretary.

New Patent Agency.

W E RAVE CONNECTEED WITH THE
The Patent Agency Business,
And would invite Inventors and Discoverers on the Pacific const, who wish Dispatch as well as Ecounnw to call
uyon us. We have an Experieuced Ageat at Washinguyoa us, we have an Experieuced Agent at washing-
ton, which, together with our own experience of several years, renders the

Mining and Scientific Press Agency
The most desirable phace to make application for Letters
Patent on the lacific coast. Apply at



FOREIGN PATENTS OB'l'AINED By application at this office, Ronm 27 , Federal Building. EWER \& SUUTH, Solicitors.

## NOTICE TO INVENTORS.

Inventors wiebing to file Caveats sbould apply at this


PATENT RIGHTS
Patent Rights Bought and Sold,


JMPOR'TANT TO IN VENTORS.
Inventors who obtain their Patents through this ofice can hare their Incentions illustrated and deseribed iu
the caluans of this paper Frer of charge, they merely
 furaishag the exgravings. We are also prepared to furcare to go to the expeuso of haviug engravinge prepared can have thenr ivventions fully noticed and described in our columns, free nf clarge. The free use of our col-
urnss 10 aid thera in introducius their inventions to the umns 10 zid thera in introduciug their inventions to th
public will be found a noost important advantage to in public wil
vebtors. EWER \& SMITE.

## The Paciflo Patent Agency



## MYERS \& DAGGETT'S

Mining and Stock Ezchange,
No. $23 z_{z}^{\prime}$ B Street, Virginia City, N.T.
Mining Stocks of All Kinds Bouglu \& Sold.
Business connected with Mining Stnckz of evary description prorptily and confoentially atteuded to.
*** Abstracts of Titics Furnished, Etc.

## FREDERICK MANSELL,

MECHANICAL \& ARCHITECTURAL DRA UGHTSMAN ,
No. 422 California street, corner of Leidsdorf. Drawings of Moders made for parties applyine for pa-
marent 2 m

## JULIUS SILVERSMIIH,

Commissioner for Nevada Territory, OFFICE, IN LATE STATE CAPITOL,
Corner of Battery \& Washington streets.,
Room 23, up stairs.

P. M. STEAMSHIP COMPANY.

NOTICE.
Until further motice, the steamers of
$3 \mathrm{~d}, 13$ th and 23 d of each month.
When any of the above dat 8 fail on Sunday, the steam A. B. FORBES, Agent.

FULTON FOUNDRY \& IRON WORKS
HINCKIEY \& CO., mantacmiorrrs of
Steam Fngines,
Quartz, Flour and Saw Mills; Cast Iron
Fronts, for Buindings, Minive Pumps, and all kxnds of Machinery, Etc. FIRST STREET,
Bet ween Market axd Misioow..........San Francisco.
*** All kiuds of Iron And Brass Castisgs furnished
at short notice. Every style of Frwsulsg to Iron when
 PATTERN MAkNes in all its various forms. Pricos low. D. B. Hickley. Wa. E, Worth. War. A. Fiead.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel, THE SIMPLE, COMPACT, STRONGAND effective manner in which it is applied to auy height of fall, ( 3 feet to 300 ,) and to any kind of machinery, will Save in Transportation Material and L.abor, from
25 to 50 per cent. of the enlire cost of the
Structure to which it is applied, and proportionally increase its value.
For full information from the Ioventor, apply at the Miners' Foundry, trom 10 to 11 A. ar., or address
J. M. BETH.

Miners' Foundry, San Francipco.
This Wheel is fully cearantised. Jaul2-te

## Agency For Patents.

$T$ He UNDERSIGNED having been fong established in the Patcn Agency Business, and laving fievorable
arrangements for antending to the int iterests of iuventors at the Patent Office in wash ington, offer their services or the securing of Cavents and latents also, will thers
ten the sales of Patent Rights, and to all maters counected witb natented ineren \& TIFFANY,
WETHERED \& CHARLES R. BOND, (Tate City and County Aseessor.) REALESTATEAGENT, No. 410 Montgomery street, San Francisco Real Eotate Purchased and sold, and Loans Nego
aiated. diated.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturnting and ama)gamating purposes to any other in uso.
The mast important principle connected with the ope-
ration of these Pans is the separation of the trituratiug ration uf these Pans is the separation of the trituratiug
process from thet of exrractiug the amalgam from thu process from thet of extractiug the amalgam from the
sath. Tlic ehier cause of cos of the precioun metals ari-
ses from the passing off of tse same in enombination with ses from the passing off of the same in emmbitation with
the quicksslver, during the proces of trituration, add
an
 working he hese marchines uhere is no apprecianlo loss
quicksiver, and hence uone of the precious metals. Where these Pans bave been introduced and operated
by the side of others au sauds from the same rat, the by the side of others cus sauds from the same vat, the
Wheeler Pants have uuiformly gained a ll large percectage
 percentago in the amount of work performed.
*** These Pans man be seen in daily operation, at the
Miner's Foundry, on First street in this city, where at siner's Foundry, on First $s$ treet in this city, where a
interested are invited to call and examine for themselve no18-ts
zenas wheeler.

## PEOPLE'S

Steamship Line! CONNEC'I'ING
CALIFORNIA AND NEW YORK, via nicaragua.
750 Miles shoitertnan any other Route: The Fast aud Favorite Double Engine Stcamship,
MOSES TAYLOR, J. H. Blethen............... Comblander Will be dispatched for

## San Juan del Sur, <br> From Mission street Wharf, <br> Punctually at $90^{\circ}$ clock, $A$. M., on

WEDNESDAY, - - - APRIL 28, 1863

## iLLINOIS <br> EYTOWN, with <br> ................. 2500 Tons.

Reduced rates of Passage and quick trips are secured
y the re upening of the Nicaragua Route.
The ese Steatmers are unsurpussed tor sperd, clean liness
and sitety, and every \&-lort will be made to and sitlety, and every "Ilort will be made to iosure the comfort of passeagera
For further inform

P. M. S. CO.

PACIFIC MAIL STFAMEHIP COMPANY'S PA live to PAAAMA. Connecting via the Pamana Rail road with the stamers at the
Steamship Connrany at Aspiuwall.

FOR PANAMA.
The following Steamships will be dispatchod in the month of Aprii, 1863.
April 13th, - . - - Steamer Golden Age.
April 2\&d, - - - - - Steanacr Somora
Wibl leave Yolsom Street Wharf, with Passengers and Treasure, for t'anama
at 9 O'Clock, a. M., punctualiy,
And chnnect, via Panama Railroad, at Aspinwall, with
teamslups for wew
teannhinp for New York. aply to
For Freight or passuge, apply
A. B. FORBES, Agent.
je4 Corner of sacrumento and Lerlesdorll sts.

## Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom, SAN FRANCISCO.

F VERY DEscription of tron and brass machi-
He bery, the Best .had Nost Eeonmmisal, mathufactured IIt the stute of Caliturbia, whl be furnished with dis
patch at the Mincrs' Foundry and Machine Works, as:
Steam Eugines and Boilers, Flower Suw and ous
mill maclinery, Miming Pumps, Amalgamators, Retorts,
Etc., Eic., Etc.
Particular attention will be given to the manufacture
of 3 lachinery iu Sections, designed for phes of difu of Jachimery iu Sections, desigued for places of diffcult
access. Varions mudels of Quariz Crushers, Amalgamators and Water Wheels-some in operatiou and on exui-
*** Parties desiring to test their ores practically, mull quantities will be afforded ample facilities, fee of

All parties desiring accurate and higbly finished draw ings and superior Machinery, at most reasoliable rat re cordialy invited to call before contracting elsewider

HOWLAND, ANGEL \& KING.
uary 23,3863 .

DONAHUE'S
Union Iron and Brass Foundry,

The First Established in the State.
M ANUTACTURE STYAMENGINES
Quartz Stampers, Amalgamators, ere., etc, at reduce
prices. Have now the largest and best asortmer Gear and Machinery Pacterus in the State, a list of Which will be forwardea to snyone desiring it, free
cost.
PETER DONAHUE

PALMER, HANSCOM \& CO.
GOLDEN STATE IRON WORKS No. 19, Fixst Street, San Francisco,
Furnish Castings and Machinery of all kinds

Genuine White Iron Shoes and Dies. PALMLR, HANSCOMB \& CO.

## To Quartz Miners.

Knox's Improved
AMALGAMATING PAN wirH
PALMER'S PATENT STEAM CHEST
THE ABOVE COMBINATION SECURES THE MOST completenmalgamatiou of the precious metals of
any process cow kuown.
By it stea mi n itroduced in the mosteffective and ecouomical m ar rer, while it is pecularly adapted to the canching Hoatiag gold and seculver, koown to be olber
wise lust. Made exclusirely by wise lost. Made exclusirely hy Nos. 19 Gol.dex sitate Iroan Works,

The public are informed that Letters Patent bave heon granted the undersigned upon Steam Chest False Bot-
toms for the inside of Amalgamatiog Pans or Tubs, and toms for the inside of Amalgamatrog Pans or Tubs, and
are cuutiuned against making, buying, using or selling the same without his couseut

VULCAN IRON WORKS CO.
P. TORQUET
. MANAGER
R. IVERS. C. R. STEIGER. S. AITKIN.

## Steam Engine Builders,

Goiler Malcers, Iron Founders and Gencral Engineers,
Nob, 137 \& 139 First Strket, - .... San Francisco.
Steamboar Machnery built and repaired ; aiso Saw, Flour und Quartz Mills, Pumping and Mining Bfachinery
ete.,
etc.,
etc.,

Proprictors of Morse's Patent Fire Grates, Jorval, Fourneyton and other Turbine Water Wheele with latert improvements.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
SAN FBANCINCO.
COLD BEARING SULPHURETS WORTEE AT REAS-
G ONABLE RATMS, ALl, THE Goln ExTmachin by Chem-

Qg- Appratus for separating sulphurets set up by
persenced babds at a cost of $\$ 50 \mathrm{tu} \$ 100$, it desired mill owners. No power dor clean water required for
be purpose.
nov8.sm

## LEWIS COFFEY AND RISDON,

 STGAIT BOILER AND SHEET IRON ER ANDWORKS.

The only exclusirely Boiler Making Establishment the Parific Coast Owned and conducted by Practical Boiler Makers. All orders Lor New Work, the repairing
of Old Work, executed as ordered, and warranted es to guality.
Old Stand, corner Bush and Market Stroets, LEWISposite Oriental Hotel, San Francisen, Cal.

JAMES PHELAN
(Late J. \& Mr. Phelan, )
IMPORTER AND JOBBER,
Wines; Liquors, Etcis Etcis
Nps. 616 \& 618 Front street,

All Goods Guaranteed. Orders Solicited. terms liberal.

Jan. 1-tt.
「HEODOR KALLENBERG

> Maker of Models For INVENTORS.

M
 Stumps, Dies and hue sinking, Fimbusilugstamps. Reparing of Machinery promptly atteaded to.
No. 4 Sansome strect, corner Market,


## PRODUCTION OF COPPER IN GREAT BRITAIN.

In 1861 there were 139 mines worked for copper in Eng land and Wales, cight in Ireland, and several in other parts of the British dominions. The entire yield of these mines, in ore, was 231,487 tons, valued at $\$ 6,800,000$, or a fraction over $\$ 29$ to the trn. The amount of fine copper realized from this ore was 15.331 tons valued at $\$ 7,838,000$. The difference between the total valuation of the ores produced and the value of the fine copper realized, should represent the costs of working and refining. This we find is but $\$ 448$ per ton of ore.
Copper Yield of Great Britain and the United States.-The United States, in all probability, will next year become the largest cepper producing country, in the world. The yield of copper, in Great Britain, for 1861 is set down at $\$ 7,838,000$. The value of rough copper shipped from Lake Superior in 1862 was $\$ 4,000,000$. The value of this shipment when refined will be enhanced about $\$ 838$, 000 , thus making the diflerence of yield between Great Britain and the United States, only $\$ 3,000,000$. The rapidly increasing yield of the Lake Superior mines added to what may be expected from California another year, will probably wipe out this difference and place this country ahead of England in its copper yield. According to present appearances, it is not unreasonable to conclude that it will not be many years before California will bring to marset a larger amonnt of rough copper and copper ore than all the world besides.

Varde of Ratloads.-We commend the following, from an English writer on the subject of railways, to the people of California:
"Railways have, when properly selected, been invariably attended with the following results: Increased Government revenue ; increased value of all property ; increased cultivation and produce, and expansion of manufactures ; increased accommodation to all classes for intercommunication ; diminished cost of all descriptions of goods to consumers, and increased consumption by accession of numbers; a measure of universal benefit without a drawback or
objection, if selected and carried out under due provisions, with judgement and discretion."
A correspondent of the Westminster Review, speaking on the same subject, says :
"Wherever railroads are constructed-whether they cross the American Continent, and link the Atlantic and Pacific Oceans, or line the banks of the Thames, the Rhine, the Danube, and the Euphrates ; traverse the burning plains of Hindostan, or the snows of Siberia-the maxim enunciated by Mr. Pease of Darlington, when railways were only experiments, on the success of which he had risked his fortune. will equally hold good, and remain unquestiouable evidence of his largeness of view and sounduess of judgment: the country but make the railroads and the railroads will make the country.'

One Hundred Tuorsand Coming !-Captain Crawford, who commands the escort provided by the Government for the protection of the present year's Overland emigration reports, by telegraph, March 30, that 50,000 emigrants were already en route for Calif.rnia, and that the number for the entire season would reach 100,000 .

ELECTRICAL PROCESS FOR AMAT,GANATING GOLD AND SILVER.
For some montlis past. Messrs. Norton \& Eddy, No. 616 Merchant St., have been quietly operating and bringiug to perfection, so far as may be, what appears to be a very important improvement in the amalgamation of the precious metals, by the application thereto of the principle of electricity. The process, which has been patented, and which is known as the "Norton \& Eddy Process," is simply the application of a current of electricity, generated in a battery, to the mass of pulp in the pan. Any ordinary amalgamaling pan may be used, by simply placing a battery of moderate power, having one pole connected with the quicksilvnr and the other with the pulp, and kept in that condilion so long as the process of trituration continues with any given charge of the pan. The results, as we learn several parties who have taken rock, and tailings to these gentlemen to be treated is most astonishing. We haye one result before us where a geutleman took 50 JDs . of tailiugs from a quartz mill, that had passed all the usual processes of amalgamation, but which under this electrical treatment returned a further yield of $\$ 06$ to the ton. The same geatleman took several other lots of rock to Messrs. Norton \& Eddy, from all of which he realized like satisfactory results. He has backed up his opinion of the process by ordering its immediate application to a mill in which he is eugaged near Placerville. Other gentlemen, who have had rock subjected to this process, have expressed themselves to us in like favorable terms of its results. We chronicle these results as among the passing efforts of the day to improve and simplify the process of working ores of precious metals in this State. We have no further personal opinion to express of it than the simple fact that the process appears to be advantageous, especially as it may be applied, at a trifling ex pense over and above, and in connection with all others, in use. It also appears to be perfectly reasonable and philosophical. It is now an almost universal admission that electricity if not almost the sole agent, is at least a most important one in the production of most mineral deposits. Its application to them in connection with the arts, as in electrotyping, etc., is now universal and still most wonderful in its effects. If it exerts such a powerful influence over these minerals when minutely divided in the shop or laboratory, why may not the same principle be applied on a larger scale, in the quartz mill, and in collecting those minute particles which have been separated or but partially collected in the great laboratory of Nature? The experiments of Messrs. Eddy \& Norton seem to answer this question most deffinitely. We would recommend persons interested to call and examine this process for themselves, at No. 616 Merchant St., in this city.
We understand that this process has been tried most succersfully upon concentrated sulphurets. A lot of sulphurets supposed to be only of ordinary value. were recently subjected to the process, and the result shuwed a yield of $\$ 2000$ to the ton. The quantity worked was an ordinary charge fur the pan. In addition to the introduction of this process to a mill in Placerville, we understand it will be more extensively tried in one of the primcipal mills in Washoe, ar-
rangements for the same baving already been consumater. We shall be informed of the re-ults at these mills as soon as they can be obtained and shall promptly communicale them to our readers.

Coppfr.-We were shown on Saturday some very rich specimens of copper ore, taken from a vein lately opened at Rouse's Ranch near Grass Valley. The specimens were taken out at a depth of twenty-five feet below the surface, and some of them we should think contain at least eighty per cent of copper. The ledge was worked some ycars ago for gold, but failing to pay was abandoned. The ledge was relocated last fall by Mr. John Armstrong, as the "Excelsior Sulphuret Mine" and a company has recently been organized to work the same, under the title of the "Nevada Copper Mining Company."

The Napolfon Coprer Mine.-This mine has recently been placed under the supervision of Mr. Joseph Powning. a gentleman who has had much experience as a copper miner, both in Cornwall and at Lake Superior. Mr P. has also become quite largely interested in its stock. We understand that the wonkings at the sine are to be very materially modified and improved, a step which cannot fail to operate most beneficially upon its future. Some very rich rock has recently been struck, with good indications for continuance.
The Lady Bryan.-Mr. Owens, the Superintendant, yesterday showed us a magnificent specimen of ore from the Lady Bryan ledge. This is a ledge twelve feet in width, running north and south, with well defined walls ou the east and west sides of it. The rich, or what is termed the "pay streak" in the ledge, is twelve iuches wide, with black sulphurets running all through it. A shaft. now forty-three feet deep, is being sunk down along the hanging wall of the ledge The water is already flowing into the shaft quite freely. [Virginia Cily Union, April 4th.

The Comstock Case.-In the case of the Comstock vs. Pride of the West, triedin the Third District Court, at Dayton, on Wednesday weel, the jury rendered a verdict in favor of defendants. The Comstock Company will appeal the case. The suit was the third trial of the same cause, and the first in which the jury went on the ground.

Wiat is Thought? A fountain from which flows all good and evil intentions; a.mental fluid, electrical in the force and rapidity of its movements, silently flowing unseen within its own secret avenues; yet, it is the controlling power of all avimated matter, and the chief mainspring of all our actions.
What is Knowledge? A key that unavels all mysteries, and which unlocks the entrance, and discovers new, unseen and untrodden paths in the hitherto unexplured fields of science and literature.

We understand an evening paper is about to be started in Virginia City.

## THE HUMBOLD MINES.

The following letter, written for, and published in the Mountain Messenger, of the 1 5th of Norember last, contains the fullest and most completo account of the miaing operations in Humboldt, which we have seen. Those of un readers whu desire to post themselves with regard to this new mining region will do well to read it carefully. The let ter was written by Mr. M m . A. Holcomb, one of the earliest adventurers into that distant region, and now Treasurer of the county which has been organized there, and a most intelligent and experienced miner. Me is now in this city We have had the pleasure of several interviews with him, and he has asssured us that he will hertafter keep our readers thoroughly informed with regard to mining matters in that locality, by contributing to the Mining and Seientific Press.

Editor Mountain Messenger:-Not having written you for some time past, you have perhaps come to the conclusion that I have become disgusted with silver-land, have taken up my blankets and skedaddied out of the couniry. In order to cunvince you that such is not the case I drop you a few lines, and give you the resuit of my obserrations while on a recent.trip around the mountains.

Afier securely bolting and barring all the doors and windows of my stately mansion, I took up my line of march for a visit to some of our mining districts, which I had often heard of but never seen. 'fraveling along the low foot-hills, covered with sage brush and greasewood, with here and there a scrub cedar, I pursued my course, crossing Coyote and Star Creeks, leaving Star City to my left, and finally reached the flourishing village of Santa Clara, where I found ny friend A. J. Simons, (one of Humboldt's Representatives in the Territorial Legislature, with his feet elevated considerable higher than bis head, and dividing his time between Blackstone and a kettle of beans which he was cooking over a slow fire, evidently expecting the arrival of some hungry miner. Irather think he came to the conclusion, before 1 finished my dinner, that the aforesaid hungry individual had arrived.

Santa، Clara is situated about fourteen miles north of Unionville, is a pleasant location for a town, has a rery enterprising and industrious population, and some of the richest silver ledges in the range. Among the richest of them are the Magna Charta, Butte, Wyoming, Tehama, Kentncky, High S'ar, Accident No's. 1 and 2, Siskigou, Last Chance, Yellow Jacket, and Twilight. The Magna Charta tunnel is in 240 feet, is now in the casing rock and within a few feet of the ledge. They have passed through several small veins or spurs which show rery rich mineral. The tannel is being ran by two companies, the Lager Beer and Sparkling Wave, at right angles with the ledge. Two companies are located on the Butte ledge-the I'ehama and Cherokee. Both companies have sunk shafts on their claims and have taken out some very rich rock. The Cherokee Co. are now running a tunnel, under the supervision of Adam Folk, to open the ledge at a depth of 200 feet. This company intend opening their claims this winter and erecting a mill early in the Spring. The Tehama Co. will take out quartz through their shaft for the present. Eight tons of this quartz was worked by the Cherokee Co. during the Summer, with an arrastra, without the silver process, and yielded a little upward of $\$ 250$ per ton, which has established the richness of the ledge beyond a doubt. This company receutly sold 108 feet of their ledge for $\$ 100$ per foot. The ledge was discovered in September, 1861, by Jack Pow ers and A. J. Simons. The Wyoming tanael is now in a little orer one hundred feet and the work still progressing. The ledge has been thoroughly prospected from the surface by a shaft, and the quartz has prored rich. The Tehama, Highton, Kentucky, and several other ledges in this district, are being prospected with tunnels, and promise equally well. The population of Santa, Clara is about one hundred. There are four families in the place, and another is expected to ar rive shortly.

After remaining $0^{\text {eer }}$ night in Sunta Clara, and enjoying the haspitality of friend Simons, I crossed over the mountain, a distance of four miles, to Prince Royal, or Lasseuville, which is a flourishing little mining camp, situated in a deep cañon on the west side of the mountain, and near the
the district, and two families. This district has many rich hours and a half, I reached the summit, where 1 had a fine ledges, the most noted of which are the Newton, King, view of Unionville and the surrounding country. I stopWebster, Sallust. Coulthurst, Daris, Esop, Socrates, Key- ped on the summit for a short time, to rest and refresh my-
stone, Mark duthony, Iankee Blade, Lassen and Prince selt, and then conmenced descending. The descent is very Royal, which are all being prospected by tuanels. The New- steep, but 1 managed to make the trip down the mountain ton tunnel is in one hundred feet, is now rery near the ledge, in much less time than it had taken me to ascend, and I and has been cut through sereral small veins which are rich. The King tunnel is being run on the oppusite side of the hill from the Newton, intendiug to intersect at the centre of the ridge. These tunnels, when completed, will be 800 feet in length and will open sir ledges-the Newton, Sallust and Coulthurst on the east side, and Ring, Webster and Davis on the west. A tunnel is being run into Esop Mill, which will open three ledges-the Esop, Mark Anthony and Socrates. This tunnel is now in 85 feet. The Keystone tunnel is in 65 feet, has about 130 feet further to run, and when completed it will open three ledges-the Keystone, Yankee Blade and Lassen. The Prince Royal tunnel is in 65 feet and is very near the ledge. All of these ledges will be opened this coming winter, and Prince Royal Distruct will be able to furnish quartz enough to keep several mills running next summer. The Louis Napoleon, Lincoln, Fort Pitt, Prnnsylvania, Honey and Washington are all considered, first class ledges. Arrangements have been made to have a twelve stamp steam mill erected in this place early in the Spring. I mast give Prince Royal District the credit of having done more toward developing the mines, in proportion to the number of inhabitants, than any other district in the range. I remained cne day in Prince Royal District, and was well pleased with the indications.
After learing Prince Royal, and traveling down the mountain four miles, in a westerly direction, I arrived at the oldest settled village in these mines-Humboldt City. This place is pleasantly situated, contains about sixty houses-some of which are fine ones-has a population of about one hundred and fifty, and seven families. The town does not appear to be very lively at present, as many of the miners have gone over to California to lay in their supplies for the winter. The ledges of this district are large, well defined, and full of mineral. Among the richest of them are the Cuba, Crittenden, Canada, Huntington, Louisiana, Humboldt, Cape Cod, Winnemucca, Melrose, Constant, Santa Anna, Nississippi, Flurida, California and Cutler. The Cuba tunnel is now in one hundred and seventy-five feet; they are on the ledge, and taking out very rich rock. 'The Winnemucca is in 50 feet, and this company have just struck the ledge, and struck it rich.. The Crittenden is in seventy-five feet, and the company have about twenty feet further to ran. They have run through a spur of this ledge, two feet wide, which prospects very rich. The Canada has a shaft, 25 feet deep, suak on the ledge. The Buntington taunel is in 60 feet, and there are about 20 feet further to run. The Louisiana tunnel is in 125 eet. This company have not struck the ledge with the tuunel, but are taking out good rock through two shafts, which are now down 40 feet on the ledge. The Ed. Payne Co. have a shaft, 55 feet deep, suuk on the ledge. They have had to suspeud the sinking of their shaft on account of water, and are going to commence a drain tunnel soon. The Califormia Company have their tunnel in upward of 100 feet, and have about 25 feet farther to run. Sereral other companies are running tannels to open their ledges. Judge Horrell has the machinery for a steam mill on the road for this place. The mill is to be erected immediately. A company is about being organized for the purpose of convering the water from Hamboldt River in a canal 13 feet wide and 5 feet deep. The canal is to be $23 / 4$ miles in leugth, and a fall of 21 feet can be attained in that distance. This project, if carried out, will furnish an immense water power, affording fine facilities for working the ledges in this and Prince Royal District. I remained two days in Humboldt City, visited several of the tunnels, examined the ledges, and I an well satisfied as to their richness.

After leaving Humboldt City, I continued my course down the west side of the monatain for eight miles, journeying along the old emigrant road, where I traveled several fears ago, when I was a poor, god-fursaken, barefoot emigrant, chock full of alkali. Little did I then thiuk that my fortune and the fortunes of thousands, lay burried beneath the lofty mountain tumy left. After crossing Eid Dorado and Spring Cañons, I commenced ascending the mountain. After pulling and tugging, sweating, panting and climbing for two
and hungry.
I regret not haring had time to visit Star Cify, but I every day hear favorable accounts from this district. Star District has as many good ledges as any other district in the ange, and bas excellent water privileges, which is an small item in in this country. Considerable improvement is going
ou in Star City iu the way of building and opening ledges. The principal ledges in Star District are the Sheba, Fravk lin, Manmoth, Almo. San Barnard, Yankee, Slabtown, Arch, Mountain top Pines. Haviland and Jeff. Davis. Most of these ledges aro being thoroughly prospected with lunnels, moth, Yankee, and several other companies, are working on their ledges and taking out large quantities of rich rock Homfray's Mill is now in running order, and you may soon look for glorions accounts from Star.

Considerable work is being done in Indian, American, Sacramento, and Echo Districts, though ant so much as in the other districts that I hare mentioned; but all of them have rery rich ledges. which, doubtless, will some day make millionaires of therr owners. The Moonlight ledge, in the Indian District, is one of the richestio the range, and is now being successfilly worked.
Last, though not least, I mention Buera Vista District, which has a large number of valuable ledges. The Nation al, Alba Nnera, Downey, Comet, Empire, Mars, Lander, Golden Fleece. Eagle, Chameleon, Congress, Tom Moore,
Jacksnn, Buckere, Blue Bell, Oalifornia, Keystone, St Lous is, Mary Ann, Mary Bell, Peru, Chile, Cass and Independence, all rank among first class ledges. The National, Alba Nueva, and Mars Companies have taken nut a great many tons of quartz from ledges. The Peru, Eagle, Congress, Jackson, Buckeye, Keystone, Empire, and several other companies, are working on their ledges. The Adrenturers Company, on the Chameleon ledge, are going to onen their claims this winter. The proprietors expect, when their claims are opened, to take out some of the richest rock ever found in the Territory.
Unionville is improving rapidly. It now has a population of about four hundred and fifty, about thirty families, a large number of fine buildings, and already has quite the appearance of a city. Fall $\& C^{\prime} \in$ mill will soon be in run ning ordel. We hare a large school-house nearly completed,
which will answer both for a school-house and a church. Its cost is a about $\$ 1,500$, which was raised by contribution of our citizens.

A good many real and sham capitalists have visited our mines during the Summer and Fall. It is a difficult matter to distinguish the real from the sham. They are all known by their long linen coats, and it is qenerally supposed that he who wears the longest coat has the heaviest purse. It would astonish you to see what an affection some of the sharpers (who have feet to sell) have for the long coated gentry. But long coat tails are about played out, as some of our boys, in order to have a little fun of their own, have commenced putting on the long coats. Many of the aforesaid pretended capitalists are not on the buy, bat are very anxious to have feet in good ledges given to them; and they are willing to pay for said feet by giving tone to the ledge: they may be interested in. This dodge arn't exactly the thing, for, as a friend of mine very properly remarlis, the mi ners have lived too long on sage brush and bunch grass, to
dispose of their rich ledges in any such a manner. A party dispose of their rich ledges in any such a manner. A party
of San Francisco bloods-men of capital I am told-recently risited our mines, remaited a day or two, and returned to San Francisco thoroughly disgusted with the country, pronounced the mines a complete humbug, and advised their friends not to invest in Hunboldt stock. Now, I am informed by reliable parties that these heavy capitalists did not visit a single ledge, and no one could make them believe that there were any silver ledges here. Some of them quired for timber and were told that there was plenty of it ou the rance of mountains east of this place; but they, like doubting Thomas, would not believe. You can see by the statement I have made, (and I am willing to be sworn as to its correctness.) that a very large number of ledges will soon be opened. Then we shall be under no necessity of seeking capitalists ; they must seek us, and they will find us when they come down with the cash. We have quit running on shane.

The miners of Humboldt county are deserving of a great deal of credit for their energy and perseverance in developing so extensive a mineral country as this. they were without means, cormanding scarcely any capital beyund their own labor, and being in a country where pro risions of all kinds and mining tools were held at high fig-
ures, they have accompilshed as much or more than any equal umber of men erer did accomplish in the same length of time, and under such adverse circumstances. This may not be the oninion of some, who hare not taken the tronble to inrestigate the matter but it is the opinion o
Unionvilif, N. T.

## SAN FRANCISCO MINING NOTICES.

## ASEESSMENTS J.EVIED.

Asses.aments upon Miniug Stucks have beeu levied as fol-Garahaldi-Assessment of $\$ 1$ per share, levied Mareh Sutri-Assessment of $\$ 1$ per share, levied Fel3. 23, pay ble March 23
Silver quartz Mill r'o.-A ssessment of 5 per cent. levied eb. 23, payable Murch 28.
H.Witi:.-Assesment of 25 cts. per share, levied Feb. , payable March 10.
Zouave.-A ssessment of $\$ 1$ levied Feb. 22, payable Mar.
Rngers.-Assessment of $\$ 5$ per share levied Feb. 4, payte Mar. 15.
Sam Wright.-Assesment of 50 cts per share levied Marpayable immediately, delinguen's to be sold Apr: 2.
Nupuleon (cupper.) - Assessments of sis per share levied Iar. 3. puyable in ist days.

Gulditin 1 (ede- - Ssinsiment of one dollar per slare levied 24. payahle Mareh 2t 6.

Warhur (fold \& silver-Anassessment of 2 per cent. capital stock was levied Feb. 16, payable Apr. 1.
Rhoules' Discrams--Asiessment of 25 cts. per share lev 3 Fel, 26, payable Mar. 5 .
Texas Co., at a Moeting held Feb. 14, levied an assessIIt of ond dullar per share, payable to the Secretary in irginia (ity.
Santa Rosa Co.-Frobruary aseessment of 20 cents per are now due and myable.
Malison Co.-An assesment, two dollars per share, was Fied l'elb. 17, payable immedately, at Office, 600 Mer ant st.
Union Co.-Anassessment of one dollar per share was Wied February 16 , payable on or before March 25.
Pena Co.-An assessment of $\$ 3$ per share was levied b. 5 , one half payaisle March 1 , balauce April 15 .

Kossuth Co., Devil's Gate District.-An assessment of 10 - per share was levied leb. T.

Constitution Company levied an assessment of 25 cts. per b. 11, payable im mediately.

Ilata Oro Co. levied au assessment of five dollars ner Feb. 9, puyable at Office of the Sequetary ia Virginia
Plata Co. levied an assesment of 50 cts. per share 2nd, payable at Olfice of the Iresident.
Llamo Co. levied an assessment of 50 ets. per share. Feb. mayabe on or before March 20 , at 115 Cal. Street Sin aneisco, or at office in Carsou City.
rineker Co. levied an assessment of 25 cts. per share,
b. 11, payable inmediately at 608 Merchant St.

Tawley Co. levied an assessment of one dollar per share,
Fel, 9, payable on or before March 12, to Superintend-
at the mine. or Secretary at Office.
tate Range Co. levied an assessment of 50 cts. per share, . 4, payable, March 15.
loss G. \& S. M. Co.-An assessment of 50 cents per re was levied Jan. 27, payable at 428 , Montgomery sit., o the Superintemdent at the mine.
Thite Cloud (t. \& S. M. Co. levied an assessment cents per share. Jan. $2 \bar{i}$, payiable to the Secretary, Montgomery st.
31 Dorado G. \&. S. M. Co.-An assessment of One Dolper share whs levied Jan. 23, payable to the Sec. or to

Raulaloupe S. M. Co.-An assessment af $\$ 30$ per share leried, payable on or befure March 1st.
${ }^{1}$ 'Tesora Mining Co.-An assessment of $\$ 11 / 2$ was levJan. 27, payable at uffice on or befora Feb. 27 .
oolar Star G. \& S. M. Co. levied an assessment 50 cents per share, Feloruary 4th, payable on
before the 4th of March. at the Uffice in this eity on before the 4 th of March. at the Uffice in this city or he superintendent at the mine in Aurora, (Esmeralda.) hios Padre G. \& S. M. Co. levied an assessment of 3 hars per share, Jan. 31, payable in 30 days, alsu an assess pit of 2 dollars per share, payable in 60 days, at office 502 ntgomery street.
Beckwith G. \& S. Mining Co.-An assessment of 25 ts per share was levied Jaa. 24, payable immediately.
fonora Mining Co.-An assessment of 25 cents per share Levied,Jan 23, payable imnediately.
verman Mining Co.-25 eents per foot, Jan. 29, payable yin ten days.
hs. Caney Miaing Co. -50 cents per share, Jan. 21, pable on or before Feb. 20th.
 Jan. 22 - puyable immediately, at Oflice 575 Mission St.
Itome thaidon ('o.-An Arsesempent of in cents per
 at When 15 Mutgontary lank.
himatic.-Fifty rents per hare pryabla at No. 4 Armery Hath, San Jramerseo, or to the suphrimendent at tha Mins
Hatte G. \& S. M. ('O.-Thirty conts per share, hevied Jan. 31, payalle at Office in San Fraucised or at the Mine Male \& Norceus-Assessment of Ten Dollars per Share, levied Jan. 31 - payable at the Office in this city, or tuduhnsikae, at the Mine, on or befure Feh. 25.
Min Prieta S. M. Co.-An Asscsiment of Five Dollars per Shure was'levied, Jan. 31, pagable on or be fore March Eth-at Uffice, cor. Montgomery \& Jack sou Sts.

## general notiees.

Tellow Jacket.-Corporate Deed now ready for signature at office of H. G. Maynard, Gold Hill, N. T.
Jenny Lind (Esmerahka.)--Owners of ground in this Cot are regiuestes to call and sign deed of trust at 608 Merchans

Mount ITope Co.-Persons claiming stock are reqrested to present title papers for examination till March 16.
U.S. Wining Co.-All persons claiming stock are requested to present title papers for examiuation at Nos. 7 \& 8 Governmeut House.

Caution.-D. M. Tyrell warns persons against purchasing a certain 10 feet of ground in the Wellington Co., stauding in the name of J. B. Magce-also 20 feet, standing in name of W. Williams. (See 'Iervitorial Enterprise.)
Ashland Co.-T. A. Gould, in the name of the Moss Co. notifies the A shland Co, that their westerly drift has cat the Lamb ledge, in the Moss Co.s ground fiom which the Ashland Co. is forbidden to extract any valuable metals.

Coso Silver Mining Co.-The Office of this Company has beeu removed from the Sterenson IIouse to Nos. 11 and 13 Court Bluck, No. 636 Clay street hetween Montgomery and Kearny. Entrance on both Clay and Merchant streets.

## 

The MNNG AND SCIEATIFIG PRESA is published at the Exchange
 C. W. M. SMITH and W. B. EWER, ; ....-Proprietors

## Engravings, Electrotypes, ete.

We execute at this olltee Engravilgs and Ilustrations on wnod, stone gerper, steel, elc. Stibebotiming and Elacerophting, Designs of every fle Pain or Culored Printing Jub Work executed with dispateh at how rates Pardens will remember that when we execute ongravings we whl inser then free of charpe in the Mining and Felestifie Press, thus giving the ad
v:antage of it Wint Circulation thrnughout the Pacific Coast in the best Ad ertising' Medium to be fuend wthe country.

## To Printers.

An INTERBET in one of the most duwrishng and best paying Newspa ortunity is bereby presented to any printer desirous of extablisiting himelf in a gond busimess in one of the healthiest, most thriving and delight. Inl mondaiu towns in the state. For further information enquire at this
affec.

Subscribe.-Are you a miner and not a sulsecriber to the Mining and Scienthe Phese? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. 'The same amount of practical information, important to miners and meclauics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Tolks at Mome?" If so, and you desire to seud important information and valuable reading matter, you can find no paper that will be read with so much eagemess by them, or ous that will convey to them so full an account of the real industry of the country as the Mining and Scientiple I'ress. We inviteall to send us their vames and four dollu's, or two dollurs lor six months, and become patrous of the only mining paper printed on the $P a-$ cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the houe that it may so for meet with their approval as to warrant their subscribing for it at once. It is dot our usual custom to receive a subscriber for less than six months; but inasmuch as we are auxious to introduce the paper where it is not now known, we will, for the present, send the Press fur three months even, on the recelpt of one dollar, in coin or stamps. It is our beliel that no one will wish to discontue the paper after being a constant reador of it for even that short perioa.

The Ewrezy ('on, (iveld Hill, give notre that Baltic Comprany lase wrongluly chaimed aud wotked their ground rince July, leco.
The ('munex leack ('o.. lying next wast of the Tirginia (O) claims have notitied the Ilazel (ireen, 'Tingley and Bach of Paxtun Companys that they are tresparsitg upen the (himaty liock Cong gromad.

## MINING AND SCIENTIFIC PRESS.

## ghe onhy mining, mechanicl and scientielc

 PAPER ON THIS CONTINENT.THIRD YEAR: FULLME VI--NEW SERIES 1
A ucw volume of this extenswely circulated paper conmmenced sept. 11,
 with neveral onfginal engraviug*, of vew inventious, ete., prepared ealremsly for its columas. That pupe is devoten to the alove purposen, togethes with the interesty



## The Mining Interest!


 to the Miuer.

## The Inventor 1

Will and it an oxcellent medhum for the purpise of bringing his invention into notice, of ascertainlng the progress of lovention in this and other coutres, and also of receriviug any informuthon that may be necessury in whtaining his patent, the preprictor hinving had great experience as a
Patent Agent, together with fucilitios at Washiugton that eurble him to ob ain I'atents with dinpatch.

## The Mechanic and Manufacturer I

Will be greatly brnefitted by its perusal, as each number will contan sers
 rocovolig the best stiontific journals from all quatrters, from which wr shall continue to extract whatever may be of benefit or interest to ou-

To Chemists, Architects, Millwrights and Farmers !
This journal will be invaluable. All new diseoveries in Chemistry will be

 the farmag interest guncrully will heamply discussed.

## Terms.

## To mail subscribers :-Four Dollars per annum <br> Club Rates.

Five Copies for Six Montles, \$8.
Tee Copirs for Six Months, $\$ 16$.
Ter Copies fne Twelve Montho, $\$ 30$.
Firten Copies for Twelye Moniths, $\$ 44$,
Twenty Cupies for Twelve Months, $\$ 56$,
For all clubs of Twenty and over, the Jearly subserintion is only $\$ 2$ عo Specimen copies will be sent gratis to any part of the country.

## EWER \& SMITH, Publishers,

Room 27, (formerly) U. S Court Builling, Corner of Washingten and Ba

## DR. VAN ZANDT,

Consulting Physician and Surgeon, OFFICE:
Corner of Washington and Sansome Streets.
The Great Success of this Centurg, as an Aid to Practical Medicine.

The Mystelious Problem of Material Na/ure, Electricity! Made Subservient for the Cure of all Nervous and Spinal Diseases
THAT THIS PRINCIPLE
 dorangememts of the homan boty 16 is ap part of the ereat principle of vi tality howr as neryons iffluence aud necessarily must have much to do in obviating diseused action.

## Too Much Cannot Be Sald

as praise; for it is hiffly probable that in health there is an exact equi ibrium of the ELECTRTC principle; ntid should thin seerel and hidden equi-
 is there not a war of forces guing on in our system? This uceds correchmg, and in order that the tissucs of the body shuuld be eusceptible to remedial

Awaken the Mrgnetic Life Within Urg,
The spinal and sympathelic more systems. Belicvith ats I do most firmly Wh his great magnetic or electrical inteusily of the earth, with its influence wers throug wisi to awaken attention to the subject, that good may come to ull.
T. Thomas, Planing Mill, California street, faciug the Mission IR.
ml
Depot. San Friticiseo.

TURNER, MARSH \& OEGDON, Successors to C. O, Turner \& Co., importere
of Wines and Liquors, S . E. cor. Front and Sacramento sts.

W illan meth, Notary Publicior storey County, N. T. Cowmissioner of
PALMER, HANECOM \& CO Golden Slate Foundry, and Machine Works
(Formerly sutter Irou Works.) First street near Market.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoreries of valuable mineral deposits, other than gold, in almost every section of the state, which bave of late been made, it is but reasonable to suppose that prospecting even in California, has but just commenced. The simplest and most universal of all metaliferous deposits is gold. It rarely occurs in any other form than that of "free gold" which is readily discernable to the naked eye. An examination of aay rock or earth for gold is an extremely simple process. If its presunce is suspected in alluvium, the simple washing of that alluvium in a pan is an invariable te-t. If in rock of any description; thal rock pounded fine in a mortar and washed, in the sause manner as alluvium, will usu.lly expose its gold to the naked eye, if there is any there in paying quautity. The only exceptions, are where the gold is contained in iron pyrites, or copper pyrites containing also iron. In either of the two latter cases the presence of gold may be readily ascertained by placing the pyrites in any suitable vessel and keeping the contents at a moderate heat for from four to six hours, with frequent stirrings, by whick means the sulphur will be evaporated, and the copper, if any is preseut, changed to a dull red col 1 r, and the gold retaining its natural appearance, ou subjecting the whole to the usual panaing process, may be readily seen by the naked eye.

Not so with othermetals. Silver, copper, zinc, nickel, and many others appear in such a great variety of metalliferous forms as generally to defy all but the most praccical and scientific eye. No description of these ores can be written which will afford any very important aid to the inexperienced in making explorations. Alter reading deseriptions, however, and carefully examining the specimens described, the explorer may go out and search with some degree of confidence and intelligence. A study of the characteristics of the sulphnret ores alone, would lead an explorer to pass over, entirely unnoticed, the richest varieties of the ores known as Chlorides or Hurn Silver, which, from the facility with which they may be worked, and their usual richuess, are generally considered the most valuable of silver ores. There is much reasoc to believe that this variety of silver ore will be extensively found in all the volcanic regions of this State. So with many other ores.

Considering the great difficulty, in the present lack of cabinet collections, and other means of iustruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resources, we hereby make the offer to miners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefuily examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be presented to us.

Our object is to furnish the miuers of California with every class of information which shall be valuable to them in the progress of their calling and in .the developent of the mineral resources of the State, and we know of no way in which we can devote a portion of our time more to the interests of miners thau in the manner here proposed. The only equivalent we ask is that they shall do what they reasonably can to sustain and improve the paper devoted exclusively to their interests.

In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. Tue ordiuary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarceIy a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearanco in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or npar a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be valu in it. althongh the gold may not shine there. We shall commence in our next issue a series of articles de-
scribing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notic؛ of the Californin prospector; and we have the promise also, at an early day-probably within a week or two-of a series of articles under the head of "The Mi ner's Laboratory," which will be prepared especially for this paper by one of the most skillful metallurgists on this coast, and which will be found of great value to the mining public.
A Useful Inventron.-By invitation of the inventor, Mr. Alfred E. Frick, one of the popular conductors of the Maket Street Railroad, we recently examined, at his residence, near the Mission, a working model of a most useful and ingeniuus machine, which he has just perfected, and for which he has taken the qecessary steps to secure a pat ent. This invention may be called a "packing machine," designed more especially for the putting up of small packages of coffee, spices, mustard, etc. It is most ingeniously constructed, compact and simple, yet so perlect and effective, that with it two boys can perform the labor of six med by the old hand process-and do it much better.
This machine is especially valuable for packing coffee fo the reason that the pressure produced operates to so comgress the grains of coffee (ground) as to almost entrely ex clude the air from the package and thus preserve the aroma, which is the strength and real excellence of coffee. The packages, when filled, instead of being loosely tied with strings, are hermetically-or nearly so-sealed with paste. By this means, the bouquet of the coffee, instead of escaping thro' the folds of the paper, is preserved until the package is opened tor use.
It is dificult to give a very intelligible description of the machine, without anillustration, hut the reader may perhaps form some idea of it from the following: The coffee or olher material to be packed is placed in a hopper from which it is distributed, through valves into three or more boxes, the exact size and shape of the package to be made, and into which the paper has first been placed. After the material has passed through the valves, they are closed and made to operate as levers or stamps; the bozes being placed on a table or platten below, and by a sinuple movement made to move up against them. The coffee, or other material is thus closely and neatly compressed. The inventor claims for his invention the following qualities: 1 , economy of labor; 2, economy of packing material; 3 , superiority of the article packed over the the same quality of a similar article packed by the kand process.
Rain.-Two juches of rain fell in San Francisco during the mouth of March, making the entire amount for the season thus far 11.78 inches. Last seuson the entire fall of rain here equalled 47.75 inches.
Snow--I'he amount of snow which fell this winter, up to March 1st, at Hermit's Valley, on the Big Tree road, near the sumnit, was 14 feet 7 inches. The amount that fell during the currespouding lime last winter. was 52 feet.

Thate it Costs.-It costs twenty dollars a ton for transportation of merchandise per hundred miles on an ordinary road, two dollars on a railroad, and twenty cents on the ocean, for the same distance.
Hallidie \& Co., of this city, have entered into a contract to erect a wire suspension bridge across the Frazer, about a mile from Chapman's Bar. It will be the first work of the kind constructed in British Columbia.

Singelar.-There is a plant growiug in the spriags of Iceland, which not ouly florers luut bears seed, in water hot enough to boil an egg. So says Russ Browne in one of his letters to Harper's Magazine.
The Dnnaghmore furnace, in Lebanon, Col. Hammond, manager, has been in continued blast for four years and twenty-four days. Throughout that time it has averaged $1193 / 4$ tons of iron per week, and has consumed but $1 \frac{1}{8}$ tons of coal in the production of a ton of iron. The Donaghmore is a twelve-foot furuace.
Patnt to Endure.-It is said that boiling coal tar with lacked lime, will make a shining surface on woodwork, and walls of any kint, which is as imperishable as stone, and therefore valuable for out-houses, \&e.

NEW DISCOVERIES, ETC., IN THE VICINITY OF PLACERVILLE.
In November last we made mention of some recent gold discoveries near Poverty Point, in the ricinity of Placerville. The lapse of time since then has proved, most conclusively, that both Poverty Point and Poverty Bar, as applied to that locality, are misnomers-for this vicinity has now proved to be one of most extraordinary richness.
The New El Dorado Co., of which we made mention has since put up asmall steam mill upon their vein, but were pernitted to run it only long enough to develop a ledge of extraordinary richness, when an injunction was served upon their further operations, by another party who claimed priority of title. This suit is not yet finally decided, although the Fl Durado Co. are confident of winuing.
This mill has now been leased by Mr. A. F. Mitchel, of this city, who is quite extensively interested in valuable "feet" in that vicinity. Mr. M. will soon start up the mill, with rock from the claim adjoining the El Dorado. He will employ, as an adjunct to the stamps, a new process, which has recently been patented and perfected in this city, and which will be known as the "Norton \& Eddy Electrical Process," This process is fully described, elsewhere in our columus to-ilay.
The New York Company, on the same lead, have just started a water-mill with the capacity for crushing 10 tons per day. They have sunk a shaft 45 feet deep aud run a tunnel 60 feet, and are now taking out very rich rock. On the extreme northernly end of the El Dorado, a company has struck the continuation of that veiu in a 14 foot shaft which shows very rich rock, carrying coarse gold.

A new lead has also been discovered, runniag parallel to the New York, and located by the American Co. An aver age lot of 480 Hs . of rock from this ledge worked in this cily by the Norton and Eddy Process, yielded at the rate of \$78,85 per ton, carrying about six per cent. of silver. All of the rock in this vicinity yielded a small parcentage of that metal, in connection with the gold.

A somewhat remarkable, yet most fortunate accident occurred, about three weeks since in the tunnel of the Poverty Point mill. A large slide occurred, which oearly destroyed the tunnel, and as it had not been paying anything of consequence for some time the company were about abandoning their ground, when, upon a more carcful examination of the slide it was discovered that an entirely new vein had been exposed parallel to the old one, and only six feet distant from it. On further exploration this was found to be the true vein, about six feet thick. The coropany has now started in anew, with most encouragiug promise, and high hopes of future success. A new ledge has also been recently opened near Chili Bar, in this vicinity, which presents every indication of proving rich. It is 15 feet thick. The company have takeu up a water power upon which they propose erecting their mill.
'lhe Pacific Quartz mill, which is located directly in the town of Placerville, has recently thrown away the arrastras, which they have heretofore used, and substituted in the stead pans-of whose patent we have not learned. We ur derstand that the change has proved most satisfactorytheir rock yielding by the new process nearly 50 per cent. more than they have heretofure obtained.

A Mining Item for Smorers.-Some five or six weeks since, ten individuals, belonging to the Dashaway Association of this city, all inveterate smokers, agreed to abstain from their favorite weed for a period of six months, and iovest the usual expenditure for that luxury, in a common fuml for their mutual benefit. In about one month this fund reached the amount of $\$ 200$. It was then resolved to invest that sum in mining stock. The "feet" were according. ly purchased, and one eveuing last week the announcement was made that their "stock" had advanced to $\$ 500$ in value.
The above item furnishes a striking evidence of the expensiveness of the habitual use of tobacco, and the great advantage of a judicious investment in mining stock.

Homboldt Sait.-It has been ascertained, says the Virginia Uuion, that beneath the stratam of loose salt lately discovered in the Humboldt district, N. T., there is a bed of crystalized salt, ten feet thick. Pieces of this rock are is traosparent and white as clean ice.

GENERAL MINING STOCK REPORT．
REPURTUF SA\＆ES
At the San Franuliwe Mining Stock Board， For the weok whag April 1 th， 1863.


## REMARES．

A greater firmness and better feeliug bas pervaded the mining market urling the past week than ever before．The transactious have also been unte us heavy ant numerous as during aniv previous wouk．Both specula－ iun and a destre for persobal luvestmeut have influeuced movements，aud
muterial advabce in stocks has been the genolat result．As an ovilence omerased activity in the mirk et，and the growing interest which capi－ ahsts are tuking therein，we may mstance the significant fact that the Ex－ lange Board have recently ficreased the adminsion fee from $\$ 500$ to 1000 without producing any perceptrible decrease to the number of applicants． In Ophir but little has been done，one transaction only havilg taked arid a dividend of $\$ 48$ per foot，on Weduestay last．They havo just made him last payment of $\$ .5,000$ on account of the Virginiin purebase，aud now， ocing out of debl，and the mine in goud working order，it may be presumed
hint their next dividend will come up to former agures，with a pouterma dyadee ill their stuct．
Gould \＆Gurry．The marvelously rich strike recently made in thin com－ pawy＇s mine has ereated an unurual demand for its stock duriog the week．
her tharket for the week opened at $\$ 3200$ and ntendily advanced to a clom－ M＇price or 6650 cash and 3800 on 90 datys．The revelopments niluded to rie made in a new shaft 15 fuct below the present workiug，from which as lakeu about half a ton of mativo silver，estimated to bo worth somo Siv，000 ！Farther important developments aro looked for by Lolders of
iturk，with so mueh continence，that it is dificult at this writiug to liud sturk，with no much contineuce，
ellers at any reusonable price．
Savige bas also come in for an unusual share of fuvor．The report dur－ of the carly yart of the week that they had＂struck it rich＂at the mine， at the effect to advance tbe price of shares some $\$ 400$ uver quotations of t week．This stock may be quoted uow at $\$ 1700$＠ 1800 ．
Hale \＆Norcross．In consequence of the happy＇，hit in the Savage，the fale $\pm$ Norcross，which is the next location on the same ledge，was consid－ rably enquired for，but without any very material advance over previous notations．
The Dancylas been quite active during the week，and is much sought at er．Ahout 1600 fliteres（ 400 ft ．）Lavechanged hands at rates materially dvatuced uver provious gutatious．The new mill of this compauy has
done into operation．The result of the frst week＇s crushing was $\$ 10,000$ rom into operation．The result of the trst week＇s crushing was $\$ 10,000$ rum $I 50$ tons of rock．The second＂clean up＂has just been reported，with
very material improvament in yield．＂g0 tons yiclding $\$ 21$ ， 000 ＂is very material improvement in yield．＂90 tons yielding $\$ 21,000$＂is re－ ported．A fine streak of ore＂splotched＂with nutive silver，is sald to have very valuble mine．The luttering resules abovo noted，are attraoting much attention to it．
Egarbraida Mines．－Tbe cspecial iuterest attached to the recent important levelopments at Virginia City，appar，for the time being，to have drawn off attention somewhut frum the Esineralda mines，From the local papers bere，however，and from private information we learn that most active
feforts are now being made to properly develop the mineral resources of that locutity，as woll as the regiell still bulow，on the Lastern Slope．
Treappud our jusaal record of transactions，and rejorts of interior Sining Dlarkets．

## transactions in ehares，for the webk．

Ophir－60 at $\$ 2490$ ，br 30 d ．Gonld \＆Curry－ 4 at $\$ 3000$
I＂ulusi－43 frums stu0（11 500）； 5 at 550 ，br 10 ds ．

Chs．Caney－5 at 880 ；is at $8212 ; 20$ at $90 ; 6$ at $97 \%$ ．
Burning Muscow－20 at $\$ 1+0$ ，br 30 ds．； 94 at 152！ 20 at 151 ； 10 at $150 ; 10$ at 145 ； 120 at 200 ，br 30 ds．； 10 at $17212 ; 20$ at 185 ； 20 at $165 ; 104$ at $160 ; 30$ at 170； 106 at $200, \mathrm{br} 30 \mathrm{ds} ; 28$ at 180； 20 at 170；20 at 190，br 30 ds ．
Lady Bryan－20 at $\$ 17 ; 200$ at 20，br $30 \mathrm{ds} . ; \quad \overline{0} 0$ at 13， hr 30 dar； 100 at 16 ，br $30 \mathrm{ds} ; 100$ at $15 \frac{3}{4}$ ，br $30 \mathrm{ds} ; 210$ at 15 ，br 30 ds ．
Adriatic－20 at $\$ 8 \%$ ； 40 at 13；20 at 12； 120 at $12 \frac{1}{2}$ ； 4 at 10；30 at 19； 10 at 14 ．

Buruside－30 at $\$ 50$ ； 10 at $38 ; 10$ a 371 2\％； 10 at $37 ; 20$ at 40.
Nevada－20 at $\$ 25 ; 16$ at $37,1,16$ at $35 ; 10$ at 40 ．
Savage－5 at $\$ 1775$, b． $30 \mathrm{ds}$. ； 5 at $1695 ; 5$ at $1750, \mathrm{~s}$ 30 ds.
Desert－10 at $\$ 5 ; 25$ at $61 \% ; 35$ at 53／4．
Reese River－175 at $\$ 6 ; 200$ at $61 / \frac{1}{6}$ ，br $30 \mathrm{ds} ; 35$ at $6 \frac{1}{4}$ ．
Laurel liill－ 40 at $\$ 10 ; 25$ at $121 \%$
Sierra Nevada－ 30 at 70 ，br $30 \mathrm{ds} ; 15$ at $70 ; 45$ at 70 ，br 30 ds ； 20 at 75, br 30 ds.
lowa－ 5 at 9712.
Norton 10 at $23 ; 5$ at $24 ; 20$ at 2215 at $\$ 175.50$ at 20
Hale it Norcross－10 at $\$ 850 ; 10$ at 900 ，br $30 \mathrm{ds} ; 10$ at $8 \% 5$, br 30 ds ．Geu．Graat－50 at $\$ 110$ ．

Yellow Jacket－5 at $\$ 350 ; 5$ at 375 ．
Moss－10at \＄19．
Utah，F．D．－ 10 at $\$ 13 / 4$
Cedar Hill＇Tunnell－27 at $\$ 6$ ； 100 at 51,2
Dauey－40 at $\$ 300 ; 20$ at 350 ，br $30 \mathrm{ds} ; 100$ at $310 ; 36$ at $300 ; 8$ at 3021, ．
El Dorado－30 at $\$ 75$ ，br 30 ds． 20 at 70 ，br 30 ds ．
Hazel Green－20 at $\$ 31_{2} . \quad$ Federal Hope－ 50 at $\$$ 1／a． Mount Davidson－5 at $\$ 0 \% ; 50$ at 6 ．
Union，Russ District－100 it $\$ 3$.

## FSMERAIIDA STOCKS．

Wide West－2 at $\$ 422!\frac{2}{2} ; 10$ at $408 ; 5$ at $400 ; 25$ at 405 br 30 ds．$\quad$ ． Golden Uross－20 at $\$ 20$ ．
Antelope－15 at $\$ 400$ ，br 30 ds ． 15 at 375 ； 5 at $370 ; 5$ at 375； 5 at $3221 / 2$ ．Gen．Jackson－ 14 at $\$ 10$ ．
Esmeralda－5 at $\$ 55, s$ at $30 d s ; 5$ at $52 \frac{1}{2}, s 30 \mathrm{ds} ; 40$ at $52, \mathrm{~s} 30 \mathrm{ds}$ ；$\overline{5}$ at 50 ．Lake Vierr -100 at $\$ 21 / 2$
Bamboo－ 15 at 50 ，br $30 \mathrm{ds} ; 10$ at 50 ，br 40 ds ； 38 at 50 br 60 ds ．
$30 \mathrm{ds} ; 10$ at $50, \mathrm{~b}$
dena- $20 \mathrm{at} \$ 6$.

Silver Hill－32 at \＄54； 10 at 50 ； 10 at $501 / 2$ ．
Pond－2at $\$ 130$ ； 10 at $125 ; 19$ at 140 ，br $64 \mathrm{ds} ; 29$ at 115
Nurth lisme．alda－ 100 at $\$ 5$.

## cuso stocks．

Josephine -174 at $57 \frac{1}{2} ; \quad 50$ at 31, br 60 ds．； 40 at $281 / 2 ;$
0 at $2 \frac{1}{4} ; 66$ at $26 \frac{1}{2} ; 16$ at 26 ．Willow Springs -10 at 14. COHPER STOCKS．
Napoleon－100 at $3 \overline{5}$ ，br 30 ds ； 25 at $26 \frac{1}{2}$ ．

## VIRGINIA CKTY Stock hist．

Corrected for the Miniug aud Scientike Press，Friday，April 9.

| Ash＇d | Bid Abs＇d |
| :---: | :---: |
| Virginia Mining District． | Sbamaro |
| Ablatan．．．．．．．．．．．．．．．．̂．－ 9 | U1110u |
| Allictu．．．．．．．．．．．．．．．．．．．． 65 | U．S．Tumuei． |
| Alcharuir ．．．．．．．．．．．．．．．．150 - | Chath |
| Belviture $\ldots$ ．．．．．．．．．．．．． 20.25 | ula varima |
| Birusall ．．．．．．．．．．．．．．．．． 40 45 | Washinglua ．．．．．．．．．．．．．． 12 |
|  | Yurk．．．．．．．．．．．．．．．．．．${ }^{5}$ |
|  | zu |
| Buruub duscow ……．． 135150 | Gold Fill District． |
|  | Baltic．．．．．．．．．．．．．．．．．． 16 |
| Bivembugdur．．．．．．．．．．．．． 5 | Bulltur（cursuntuateu）．．． 40 |
|  |  |
| Livar Han गunue．．．．．．．．－－5j | stranch \％ |
|  | Cathuvild ．．．．．．．．．．．．．．． 14 |
| comanerctar ．．．．．．．．．．．． 10 |  |
| Cousuldated Leumima．．．． is $^{\text {a }}$ |  |
| Nurgau．．．．．．．．．．．．．．．．．．．．－－－ | Gode |
| Empre．．．．．．．．．．．．．．．．．．．． 75 $^{\text {vidur }}$ | Hawkeye． |
| Furview ．．．．．．．．．．．．．．．． 45 50 | Kuh－1－Hoor ．．．．．．．．．．．．．．． 1000150 |
| Grass Valley $\ldots$ ．．．．．．．．．．． 15 20 |  |
| Gotden kira．．．．．．．．．．．．．－ | Laturthg．．．．．．．．．．．．．．．．${ }^{11}$ |
| Hizel 心reeu．．．．．．．．．．．．．－ $\mathbf{-}_{5}$ | Mary Auli．．．．．．．．．．．．．．． 20 |
| Hurpious，Vitumialucorpo 26 | Nurth America |
| Harti isun，mul．Frath．lucur． $7{ }^{8}$ | North Uphre（tur |
|  |  |
|  |  |
| in Crustu．．．．．．．．．．．．．．．． 10 12 | swrezy |
| Massilu4 ．．．．．．．．．．．．．．．．．－－${ }_{25}^{7}$ |  |
|  | Yulo ．．．．．．．．．．．．．．．．．．． 15 15 ${ }_{\text {\％}}$ |
| Минангі ．．．．．．．．．．．．．．．．－ 35 |  |
| M14．lio011．．．．．．．．．．．．．．．．${ }^{15}{ }^{20}$ | Devil＇s |
| Moherau．．．．．．．．．．．．．．． 6 10 | Goveruor Nye |
| Urentilo．．．．．．．．．．．．．．．． 3 在 5 | Humerey |
| Useedu．．．．．．．．．．．．．．．．．．．－${ }^{\text {a }}$ 15 | 1 1＇tide of tau West ．．．．．． 100 |
| Pride of Wastuve ．．．．．．．．． 30035 | Whuemuces ．．．．．．．．．．．．${ }^{10}$ |
|  | Wide West ．．．．．．．．．．．．．． 311 |
|  | Flowery District． |
| sumu lie | Atwill ．．． |
| Sunimit，（Hominal） |  |
|  | Husrisoin |
| Sucrameuto ．．．．．．．．．．．．．62\％ 65 | Uncle sama ．．．．．．．．．．．．．． 5 |

## WASHOE STOCK REMARKS．


The business of the pust weak foots uf momewbit less，io the nggregato than the trathactious of the last，thet a falr amount of dealing is repurted． Althongh consmerablo ductinatom has vecurred，the geteral sebdeacy of stocke is unward，and the market givea promise of emblaued improvement． Burning Muscow is still fluctunthg，und may be quoted at $\$ 130$＠ 140.
Sacraturinto luts declimed somewhat during the week，and may be quoted

## －day at \＄00 © 82 ！

Luah has myanced $\$ 10$ und Is seling at $\$ 52$ and $\$ 65$ ．Work is about be－ ing communced on the milue．
Alfers is mantulned at $\$ 05$ and $\$ 70$ ，with but little stock in tbe market． Burasido has cleclined sotaewhet，and may now be quoted at $\$ 40$ to $\$ 46$. Potosi is advaticing，and is it dem sud at $\$ \mathbf{i t 5}$（9）$\$ 400$ ，with little offering． Soray has beon is request at $\$ 30$ and $\$ 35$ ，with plenty of buyers．
Lat Crosed ifstill without demand，and is in the market at sio and is Belvidere is firm and saleable at $\$ 20$ ，with little ill market．
Cule in in requent at $\$ 15$ for large lots，althougis the dealing in it during wetk has been light．
Moute Cristo after a long quiet，is in requent again，\＄1る being bld．
Madison is offered at $\$ 18$ to 20 ，without buyers．It may be quoted at \＄15
Texar is advaucing alowly，und may bu queted at $\$ 8$ and 9 ，with a fair demand．
In Gold Hill an adranco is observablo and considerable business has beon done in shares．Overintin is saleable at \＄45，und is rapuly changing baude． Belcher is firm，at \＄125 and $\mathbf{5 6 0 \text { ．Kols－i－nuer is firmly held it about the }}$ same ligures．The ledge in controversy by thess compunies is one of the best in the Territory．
The Eureka was maintained at $\$ 35$ and 40 until to－day，whon develop－ uents suddenly advanced it to $\$ 50$ and 65 ．Such is the report from Gold Hill．
Duna has declined to $\$$（a3）5，but shows symptoms of a rally．
Prinecss and Bullion remain at about $\$ 40$ and 45 ．
Buchavao is saleable at \＄100 and 175.
The leading feature of Saturday was the developments in the Savage． On Friday ore of the vory richest character wass struck，and brought to the surface siturday．It is equal to the No．I rock of the Gould \＆Curry， which it vory mucl resembles．The result has beou tha advance to about $\$ 2,000$ ．
Santa Rita is in the markot at $\$ 80$ © 65 ．Thero is something of a dispo－ sitiou to deal in it at lower fgures，but it is held firmly．
Birdsall is marketable at $\$ 20$（3） 4250 ，with an upward tendency．It is in the market in small lots at $\$ 45$ ．
Milton is quotable at $\$ 80$＠ 85 ，although it is sparingly dealt in at these figures．
Pride of Washoe is offered at $\$ 35$ ；without bidders．It cannot be quoted t more thau \＄30．
Osceolu may be quoted at $\$ 9$（3） 10 ，with some request．
We quote Huzel Greas at \＄5，Bloomingdale at 5 ＠ 6 ，York at 5，Allen at 30，Recorder at 20.
Yellow Jacket is ollered at $\$ 325$＠ 350 ，without tabers．
Uuion is offered at $\$ 50$ ，in sinsll lols．It may be quoted at $\$ 45$＠ 50 ．
We quote Galedonia at $\$ 15$ ；Baltic at 16 ＠ 18 ；Leon at $\$ 30$ ；Yolo at $\$ 15$ （a）$\$ 18$.

Best \＆Belcher is being dealt in to some oxtent，
Beach \＆Paxton is attracting cousiderable sttention from the great idth and favorable appearance of its ledgu．lor 50 feot $\$ 236$ whs offered to day，without sellers．
Keystone－Nebraska is bsing denit inät $\$ 10$＠ 12 ，with something of a demand．
20 fect Sacranento sold to day ai $\$ 62$ ．


Bodie，No．1， 55 at $\$ 18$.
Bodie，No．2． 90 at $\$ 16$ ．
Keeney－ 5 at 30 ．
Golden Age－ 50 at 20.
Rebecca－25 at 20.

## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO.



Voleanic Smelting Furnace.



The Occidental Hotel Open for the Reception of Guests.



Nows Stancl, CABINET FOR MINERALS;

A Branch Telegraphonece,

 San Francisco, Jan. 1st, 1863.

## MUSIC! MUSIC !!

## A. K OHLER,

importer of every discrripton of Mnsical Instrumemts it Musieal Merehandise SHELT MUSIC \& MTSICAT, BOOKS. GENUINE ROMAN STRINGS, de.,
Lighte's New Patent Insulated Iron Frume is put iato all of
Lights \& Bradbury's Overscruvg Pianos.
Therever the e instrumeuts are kuows thry
RANK AS TIIE FIRST AND BEST Initone, delicacy of touch and durability. All lhe lecaling Musicicuns of the country have
tesifified to their superiority.
A. Kuhlebl, Agent tur thio Paciinc Const.

MELOIEONS AND HARMONIUMS, prom whe oblebrated manueactory of

MASON \& HAMLIN,
Warranted superior twall othars.
$n=3$ Seud for $a$ cutalogue and Prico liat.

A. KOHLER, Agont.

## To Mill Owners.

WAATED, by a person fully competeut to the position a situatimi as Mintsa serperisrgndent in a Gold or Copper Mue. The Applicant was eugaged for about eight yoars
us superiveudent of Copper Nuing Worbs in Coruwall as superivtcudent of Corper Muing Works in coruwall,
and has ucted in the same capacity in Gold Mines in thio and has ucted in the same capacity in Gold Mines in thi
state for the past seven years. Ho bats bad much expe
 Ore He can give arplu lestimonies as to his capacity for the position he secks.
Apply at this Olitice.

## W. T. \& J. GARRATT,

City Brass and Bell Founders

Brin aild Litt Pumbs, 'liurch and stambont Bells, Tay

 COUP'ING JOINTS or ali sizks. Manu
ratt's lutent Improved Journal Mctal.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at tee sacraminto agriculudal state fatr FOR 1862.

## ALSO; FIRES PREMIUM

t the San Francisco Bay District Agricultural Falr, 1862
Manofactory, wholesdies afd retar,
No. 44 Leidsclorfif street,
Opposite the What Cheer House, San Francisco.

## LATEST IMPROVEMENT

in Ladies' Bucklos.
 waters in Jewetry, that le hats made mportint improve
ments in BCCKLES, which surpasa any and all herct ments in BC'CKLEs, whieh surpass any and all hercto
ore made. Theor simplicity, conmoulinuifess, und
beanty rencler them the must useful as well us ornamen-
beaty aren
tal trinkers
tal trinkers.
Orders trum the country respectfuly solicited. For
particulars call at or address, FREDERIK REICHEL,
Manufacturiog Jeweler.
Manufacturiug Jeweler,
620 Merchant street, San Frabcisco

GREAT REDUCTION is PRICES.

STANFORD BROTHERS, 121, 123 and 125 California street,
Keep the Largest Slock of all Kinds of
Lamp Stock
And will sell chenper than any other Lamps, Chinneys,

Wicks, Campirne, Buraing Fluid, Alcohol, Coal Oil,
T'orpentine, Karosene Oil, COMET ILLUMifating Oil,

Sprram Ort, Lard Oil,
Machisery Oil,
Rape Sebd Oil,
Cuina Nut Oil,
Polar Om,
Linseed Oil, Raw and Boiled,
Shark's Oil,
Neat's Foot On,
Tansfrs 0il, Etc.
Our custnmers in particular, and the country trade gea-
erally are requested to ascertain our prices before purerally, are requested to ascertain our prices before purchasing from travelmg aguts, as wo will sell at less
aples that they culu alford to.
aplef

## 50 lbs, MLARINE AND

Fire-Proof Paint,
$\mathbf{M}^{\text {anufactured by the pactitc sitalidurgical }}$ Works iritice eity, tor Hulls and Decics of vesselis
 or Butrnims niship, ,t is equal to a evat of stoue, and cheaper than any other paint.

## DIRECTIONS:

For Decks of Ships, use two parts Mineral Paint, one part Whitu Lead, mixwith Linseed GiL. For Bottoms of Vessels, use oue vart ground sulphur three parts Maerm Paibt, mis with Coal Tar alld apply it bot. sale by all Ship Chan ellers and Gradesmen, in boxes
For so fiss cach, or by the Facific Metallurgical Works.

## 25 POUNDS FIRE-PROOF PAINT.

When used on Roofs, Buildings, or Fences, it is equal Fire Proof, aud coastiog less than any paint.

DIRECTIONS :
FOUSE: -Mix throe parts Minersl Paint with one par white lead, thin with linssed oil: If a lighter color is wanted, mix less patat, more lead.
RuUF :-Five yive ts or Mideral Paint, one part white Leud; nixx with Linseed oil. Put it thick on a tin Roof as one cuat when properly applied will last hree years.
s. C. BRADsㅂAW, Agt., G. T. Fouque, Superiutendent.

WORKS, North Beach; Office, 318 Callfornia sta, Smm Francisco.

## WRIGHTS PICKS.

JOHN WRIGFT, of Sacramento, has establasned hum$J$ belf in san Franciscu for the maunfacture of every description of 1 ICKS , of the best material, at reduced prices. Pick Eyes of the bestiron furnished in any quas Luty, at low rates Orders from the country promptly attended to. N. B.- None genuino ulless stamped with my uame. JOHN WRIGET, 511 Market strect,

Opposite Battery, San Francisco.

## REMOVAL.

OFITCE OF THE PACTREC METAL. having cularged our Works at North Beach, wo are now vatuled wo reduce from 10 to 15 tous of Sitver or Golid rock per day.
finla and silver ore, and Sulphuret Assayers', or sil Ginfa and Silver ore, and sulphuret Assay
versmoths' sweepays reduced or purchasto.

 318 California street, nea sons

John R. Sims,


Oregon street, between Washington and Davis and Fron and Jacksou streets, Sax Fkiversco. Manufacturers or Fire Proof Dooxs and ings. All orlers from the interinr Oregon, Washington Territory, Vancouver's Yslatd, British Culnmba, or any place ou the Pacific coast, attended to with promptuess and dispatch. Mr. Snes appreciates the past Jiberal pat ronage of his friends, and trusts that he may continue
to merit it in the future. For the juformatimn of stran gers he would say that be feels conlident that his experience in his particular calliug is surpassed by noue on this coast, which his superior work, sent to almost eve ry town in this state, Oregon, also Victoria and the Sapd
wich islands, and to be seen on some of the best build Wich Islands, and to be seen on some of the best build
ings iu San Francisco, fully attast. A largs assortment of second hand slutters for sale at low rates. apis

## WANTED,

$G^{\text {oidquartz sutpablefor }}$ CUTYIN'G JEWELRX,
By FRONTIER A. DEVIERCY,
$13 \mathrm{ap} \quad 487$ Pine strent, San Francisco.

New Patent Agency.

##  <br> The Patent Agency Business,

And would invite Inventors and Discoverers on the Pa-
cific coast, who wish Dinpatch as well as Econony to call upon us. We have an Experienced Agent at Washing tou, which, together with our owa experience of severa years, renders the

Mining and Scientific Press Agency
The most desirable place to mate application for Lettera
Offce of the "Mining and Scientific Press," Room No. 27, Foderal Building, corner of Battery and Wush ington streets, (directly opposito the Port Offlce,) Sal
Fraucisco.
EWER \& SMITE.

FOREIGN PATENTS OB'CAINED By application at this office, Room 27, Federal Buildiug EWER \& SMITH, Solicitors.

## NOTICE TO INVENTORS.

 Inventors wishing to file Careats should apply at thisOnce, Room No. 27 , Federal Building. Turros moderOnce, Room No. 27, Federal Building. Tortas moder-
EWER \& SMITE.

## PATENT RIGHTS.

Patent Rights Bought and Sold, At the office of the "Mlining and Scientifie Prens" Ageney.
EWER \& SMITH.

## IMPORT'ANT TO INVENTORS.

 Inventors who obtain their Patents through this Office Cen bave their luventions illustrated and described iothe columps of this paper FREB of charge, they merely furnishing the engravings. We are also prenared to furnish engravings at reasonable rates. Thnse who do not care to go to the expense of having engravings prepared
can have then inventions fully noticed and described in can have then inventions fully noticed and described in our columas, free of charge. The free use of our colpublic will be found a most important advautage to in
yentors.
EWER \& SJIITA.

## The Paciflc Patent Agency

IAS BEEN REMOVED to No. 625 Merchant street, to the offle of Wr. LOEWY, Esq., Attorney at Law.

MYRRS\& DAGGETT'S
Mining and Stock Exchange, No. $23 \% / 2$ B Street, Virgiula City, N.T. Mring Socods of Al Minids Buaghid sout Business connected with Mining Strelkz of every descrip tion promptly and contaentially attended to *** Abstracts of Titles Furnished, Etc. FREDERICK MANSELL,
MECHANICAL \& ARCHITTCOTURAL DRAUGHTSMAN,
No. 422 California strcet, corner of Leidsdorf.
Drawings of Monels made for parties applying for pa
Lents at. Wushingtou or Loudon.
P. M. STEAMSHIP COMPANY. NOTICE.
Untal further notice, the steamers of dispatched on the

3d, 13th and 23d of each month.
When any of the nbove dat-s failo on Sunday, the steam er will be dispatcled ou the following Mindiny
A. B. FORBES, Agent.

FULTON FOUNDRY \& IRON WORKS
HINCKEXY \& CO.,
ananupatiturars or
Steam Engines, Quartz, Flour and Saw Mills; Cast Tron Fronts, for Buildings, Mining Pumps, and all kinds of Machinery, Etc., FIRST STREET,
Between Market and Mishon............San Francisco.
*** All kinds nf trox and brass Castigas furnikhed at shorr bonice. Every syyc or Finshive to Irou whel cast. Repaining on dachinery neaty doue. Prices low.
Pattrex M. D. B. Hisceliky. War. E. Worte. Ww. A. Fibid.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel.
THE SIMPLE, COMPACT, STRONG AND
effective manner in which it is appled to any height of fall, ( 3 feet to 300 ,) and to any kind of machinery, will Save in Transportntion Material and Labor, from 25 to 50 per cent. of the entire cost of the
Structure to whioh it is applied, and proportionally ìcrease its value.
For full information from the Inventor, apply at the Miners' Foundry, trom 10 to 11 A. st., or address J. M. BETH.

Miners' Foundry, San Francisco.
This Wbeel is fully cuarantesd. Jav19-tf

## Agency For Patents.

 at he Pateat onice in Washington, offer their services
for the securing of Caveats and Patents also, will at-
ten to the sales of Patent Rights, and to all matters
connected with patented in restins.
WETHERED \& THFANY,
WETHERED \& TIFFANY,
Ofice, 410 Montgomery street.
CHARLES R. BOND, (Late City and County Assessor.)
REALESTATE AGENT,
No. 410 Montgomery street, San Francisco.
Real Eatate Purchased and sold, and Loans Nego-
inted.

## ciated.

WHEELER'S
Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating aud amalgamating purposes to any other in use.
The mnst important principle connected with the ope-
ration of these Pans is the separation of the trituratiug process from thr of extracting the amalgam from the saud. The shiet cause of loss of the precious metuls ari-
ses from the passing off of the same in combination with ses from the passing of of the same in combination with
the quicksilver, during the proces of trituratou,
 to flow. The trituration this loss is entirely aroided. In
working these machines there is Do npprcciable loss of Working these machines there is po apprcciable loss
quicksiliver, and helice none of the precious metals.
Where these Pans have been introduced and operated
by the side of others on sands from the same vat, the by the eide of athers on sands from the same rat, the
Whlveler Paus have uniformly gained n Iarge percentage of metals over its competitors, as well as a still larger
perceutage ji the ampunt of work performed.
*** These Pans mad be seen in daily operation, at the Miner's Foundry, oll First street in this city, where all interested are invited to call and examine for themselve

Steamship Iine! connecting
CALIFORNIA AND NEW YORK, via micaragea.
750 Miles shon tex than any other Route:
The Fast and Favorite Double Engine Steamship,
MOSES TAYLOR,
J. H. Blethen................ Commander, Will bo dispatched for
San Juan del Sur, From Mission street Wharf, Puuctually at 90 'clock, A. M., on
WEDNESDAY, - - APRIL 2R, 1863
Connecting at GREYTOWN with the Splendid Stermship

## 1LLINOIS .

Reduced rales of Passage and quick trips are secured hy the re opeuing of the Nicuragua Route. These Steamers are unsurpassed for speed. cleanliness and safety, aud every effort will be made to insure the For further information apply to
a20 No. 407 Washing Kun Struel, opp. Post Onfe
P. M. S. CO.

 FOR PANAMA.
The following Stenmships will be dispatebed in the month of April, 1803.
April 13th, - - - Steamor Golden Age, April 2\&d, $-5 \cdots$ - Steamer Sonora. Will teave Fulsnm Sireet Wharf, with Passengers and Trensure, for d'unama

AT 9 O'CLOCK, A. M., PUNCTUALLY,
And counect, ria Panama Railroad, at Asplawall, with Fenmships for New York.
For Freight or passage,
Je4 Corner of Sacramento and Leidesdorif sts.

## Miners' Foundry

## MACHINE WORKS,

First St., between Howard \& Folsom,
SAN FRANCISCO.
I. DERY DESCRIPTION OF IRON AND BRASS MaCHII. nery, the Best and Most Econnmical, manufactured in the state of Californin, will be furnished with dis-
patch at the Miners' Foundry aud Machine Works, as :
Steam Eugines and Boilers, Flower, Saw and Quartz mill machinery, Miniog Pumps, Analgamators, Retorts,
Etc.,
Etc.
Particular attention will be given to the manufacture
of Machinery in sections, designed for places of diflicult of 3achinery in sections, designed for places of diflicult
access. Various models of Quartz Crusluers, Amalgamators and Wa ter Wheels-some in operation and on exhis-
bilion. Parties desiring to test their ores practically, in
snisill quantities will be afforded ample facilities, free of small quantities will be afforded ample facilities, free of
cost. cost.
All parties desiriog accurate and highly fuished draw
ings and Superior Muchinery, at mosh reasontible rates are cordialy invited to call before contracting elsowhere.

HOWLAND, ANGEL \& KING.
uary 23,1863 .
San Francisco, February $23,1863$.

DONAHUE'S
Union Iron and Brass Foundry,
The First Established in the State.
 ,
 which will be forwarded to snynue desiring it, free

## PALMER, HANSCOM \& CO.,

GOLDEN STATE IRON WORKS, No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds ALSO :
Genurne White Iron Suoes and Dies. PALMER, HANSCOMB \& CO

## To Quartz Miners.

## Kinox's 'Improved

AMALGAMA'IING PAN

## WITH

PALMER'S PATENT STEAM CHEST.
$T$ HE ABOVE COMBINATION SECURES THE MOSP 1 complete amalgamation of the precious metals of By it stea $m$ is introduced in the most effective and eco.
nomicul $m$ ar. ner, while it is peculurly adapted 10 the catching. floating gold aud silver, known to be otherwise lusl Mado exclusively by
PALMFR, HANSCOM \& CO., Nos. 19 Golden State Iroy Works,

The public are informed that Letters Patent have beet gramber the undersigued upou Steam Chest False Bot-
Ioms for the insile of Analgamating late or Tubs, und are cutionced against making, buying, using or schling the same without his conseat.

## VULCAN IRON WORKS CO.

## P. TORQUET

. MANAGER.
R. IVERS. C. R. STEIGER. S. AITKEN.

## Steam Engine Builders,

Boiler Makers, Iron Founders and Gencral Engineers,
Nos. 137 \& 139 First Striket, --. - - San Francisco.
Steambat Machisery built and repairod; also Saw, Flour und Quartz Mills, Pumping and Mining Machinery
etc.,
etc.,

Proprietors of Morse's Patent Fire Grates, Jofyar, Fourneyton and other Turbine Water Wheels with latest improvements.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
SAN FBANCISCO.

GOLD BEARING SULPHURETS WORIRED AT REAS ance katks. All the Gold Extracted by Chem higher than the BEST AMALGAMATION YRUCKAS. Apparatus for separating Sulphurets set up by ex-
perjenced bauds at a cost of $\$ 50$ to $\$ 100$ if desired by mill owners. No power nor clean water required for min owners. No power nor clean water require. nov 8.3 m
the

## LEWIS COFFEY AND RISDON,

 steam builer and sheet irowThe only exclusively Boller Making Eatablishment on
the Pacigc Cuast Owned and conducted by Practiral Boiler Makors. All orders fur New Work, the reparmg to quality.
o qu
Old Stand, corner Bush and Market Streots.
opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RiSDON.

JAMES PHELAN, (Late J. \& M. Phelan,
IMPORTER AND JOBBER,
Wines; Liquors, Eto., Etc,
Nos. 616 \& 618 Front street, Betwect Jackson and Pacific Streets,
San Francisco.
Eatablished 1849.

All Goods Guaranteed. Orders Solicited. TERMS LIBERAL.

IHEODOR KALLENBERG
Maker of Models FOR INVENTORS.

M ical Instruments, seale, weichirs, etere; steel
 Repairiug of Mischinery prnmpty attended Market,
No. $\pm$ Sansome street, corner Mar


## eUartz reduction and goid amalgamating MACHINERY.

At no period in the history of mining has there been such an intelligent and practical application of inventive genius to mechanical contrivances for the reduction of quartz and the amalgamation of the precious metals as at the present time. An experience of twelve years in this branch of industry on a ecale of magnitude without a parallel in either time or place has advanced Californians to the front rank of experimental miners; and at this time the mia ners of the old world-even the veterans of Cornwall and Wales are looking to California for the latest and most approved machinery in our peculiar speciality of extracting gold from its matrix. One of the most successful operators in the newgold fields in Wales, is a gentleman whose most important practical experience was obtained in the mines of California and Washoe.

In machinery for reducing quartz, we are fast narrowing down to a point. The numerous contrivances of mammoth "impingement" wheels, of ponderous rollers, cylinders, balls, etc., have all been castaside forever, and there is every reason to believe that the few experiments which are now in progress will soon result in the adoption of a principle which, by common consent, will be recognised as the most economical and effective application of machinery to this purpose. If stamps are to be used, with the "wet process" triturating pans mast come into invariable use, in connection with them. The experiments of the past two or three years have fully satisfied all practical miners that no "wet process," except grinding, will pulverise quartz to a sufficient degree. of fineness to liberate anything like the entire amount of gold contained in the quartz, and every miner is also fully aware that any such process, by any machinery yet devised must necessarily be exceedingly slow.

Efforts are now being made to reach the required fineness by a direct process, and as to accomplish this the quartz must be reduced dry, a class of machinery has been introduced similar in its general construction to the "Smat Mills" in use iu the wheat growing counties of the Eestern States, which admit of an upward discharge, that can be so regulated that none hut the finest floating particles of dust can escape. One of these machines, the "Pond Crusher," manafactured at the Miners' Foundry, was recently illustrated in this paper. Another, now in use at the Pike's Peak mines, where it is known as the "Young America Quartz Crusher," instead of using revolving bammers, accomplishes the reduction by the simple velocity of its motion, the particles of quartz being struck are reduced to powider by "beaters," while suspended in the atmosphere. To accomplish this the beaters are made to move with a speed of from 12 to 15 hundred revolutions a miuute. This latter machine has been constructed in this city • by Goddard \& Co., at whose foundry patterns of the same can be seen. It is claimed that by these machines the quartz may be
erushed so fine as to need but very little reduction in the erushed so fine as to need but very little reduction in the pants, which, indeed, need only be used as amalgamators.
Both these machines are about to be submitted to practical tests on a large scale, the results of which will probably
fully develop their power, capacity and economy. Thus far new direction which is being given to our mining industry, their use hus been mainly experimental, but with results, cun be forned, than by passing through six or eight of our which give much reason to hope for the eventual success of principal foundries and noting the immense amount of mathe principle. Of course we shall not fail to note auy re-chinery now being prepared for these mines. sults for the benefit of our readers, as soon as they shall These developments, though outside of the limits of the transpire.

United States, are nevertheless as much condusive to the Much progress has also been made in improring the advancement and prosperity of this city as though the mines "stamps." Probably the best stamp battery which has yet were located within the bonaderies of California. All the been constructed is that made in this city by Goddard \& Co. wealth wh ch they will create, all the commerce and ivdusIt is made of wrought iron, durable, light, effective, and ea- trial interest which they will call into life, will centre in sily kept in order. The Ophir Company, at Washoe, has, San Francisco. and add directly or indirectly to the prosperthoroughly tested the value and economy of this battery by ity of each and all its inhabitants.
working it in connection with the ordinary wooden stamps, We propo-e to take up each foundry, separately, and enand have decided to adop it to the exclusion of the wooden ones. It discharges upon all sides, an arrangement which adds greatly to its effectiveuess. This battery may be seen and examined at Goddard \& Co's Foundry, on First Street Coas in this city.

## OUR MECHANICAL INTERESTS.

The late extraordinary mineral developments on the Eastern Slope, the ivcreased attention paid to the quartz mining interest, everywhcre, throughout the State, and the renewed attention now being given to the mines of Sonora and Lower California, are adding vastly to the business of the Foundries and Machine Shops of this city, and to mechanical industry generally. The continuous demand for machinery for new mines, and for increase and renewal of machinery on old ones are compelling our foundries, in many cases to enlarge their area of business, and to add many additional hands and much machinery to their mechanical forces. Go where you may about the great work shops of this city, you will find evidences of most unparalleled prosperity meeting you upon every band. The air of Front street and the lower portion of market, in particular, is resonant with the noisy din of the hammer and chisel of lath and anvil, while the sinews of iron and steel, moved by the untiring energy of steam, are constantly being brought into requisition as adjuncts to human labor. Thanks to the energy and enterprise of San Francisco mechanies and capitalists, our State is now fully redeemed from the thraldom of foreign dependence, and our miners and others are supplied with better machinery than could be obtained from the East, inasmuch as our mechanics and inventors have carefully studied and fully understand the peculiar necessities of the country.
A more intelligent and energetic class of mechanics cannot be found in the world than are now concentrated in this city. Being desirous to gain some idea of what is being done by our foundrymen and boiler makers, and make brief mention of the same in the columns of the Press, we took a hurried walk, a few days since through some of the principal shops, and were not a little astonished to note the magpaies render its permaneot 1ssue, in pampblet form, as has two or The recent mining operations and解 demands for machinery from our founded vastly to the likely to mislead as otherwise. Oar perre demands for machinery from our foundries and machine much more value in its present shape, corrected at regular shops. No better idea of the magnitude and extent of this intervals.

## THE HUMBOLD MINES.

Uniontille, Marci 25, 1863.
Mr. Edrror : Perhaps a few lines about our country would not be amiss. We have cold airy weather and the mountains are covered with suow, but nothing hinders the sturdy, iadustrious miner from driving his tunnel. Ere long we will astovish the world with our rich mineral. A few Californians, with small capital hare arrived among us and some purchases have been made. I will now give you- the names, prospects, and amount of labor done on some of our most important ledges.

## Prince Royal District.

This District is situated on Prince Royal Cañon, at the extreme northern end of the Humboldt mountain, and has many very important ledges ; among them are the King, and Daniel Websser. Tunnels are being run to both of these ledges and shafts have been suok on them-in the King ledge, to fhe dopth of 35 feet. Tons of good rich mineral are lying by the side of the shaft. These ledges are both large and well defined. I thiuk the King is second to no ledge in the Territory. It is about five or six feet wide and there is but lit le of the rock, which does not show mineral. On the opposite side of the hill three ledges are located, namely : Newton, Salust, and Colthurst. A tunnel is in progress to all three, and now run in solid rock one hundred and fifty f-et. They have run across several rich spurs and are now into the casing of the Newton. The owners of the ledges consider the numerous spurs alone, sufficient inducement to put up a mill and work the rock; the ledge is large and well defined, having mineral streaks traversing the rock. Near the latter, is to be seen the Mark Anthony, Alsop, and Socrates. One tunnel is being run for the three ledges, and is in abuat 100 feet. No ledge is yet struck by this tunnel, but the ledges have been opened and a great quantity of argenifierous galena bas been taken out, especially from the Mark Anthony. In one place I saw where they had run an open cut 15 or 20 feet across numerous spurs of pure mineral with a prospect of pleaty more ahead. There appeared to be a solid mass of quartz, as far as the cut was run. Assays of all, or nearly all of this galena, prove it to be rieh in gold as well as silver. The Prince Royal, American, and Yankee Blade are along the Fast Bank of Prince Royal Cañon. Two or three tunuels bave been run, one 80 feet and the other about 50 feet, for the purpose of developing these ledges. 'The Prince Royal tunnel is a little past the perpendicular from the croppings of the ledge. This ledge is valued very highly. It shows plenty of fine mineral, but is not very wide, perhaps does not exceed three feet. Two mill seats have been located near the mouth of the tunnel. Pensylvania, Napoleon, and Lilty, are the the first nearest the Canon on the opposite side of the mountain. Tunnels are ranning to all, and they are all truly very fine ledges, especially the Napoleon, and Peunsylvania-narrow but very rich both in gold and silver. The Napoleon can be traced for over a mile. On this mountain are to be found the Washington, Honey and Lacindarich and well defined ledges, and from the quantity of mineral they possess I should judge they are not much inferior to any of the former ledges. Last but not least, stands the Fort Pitt. It is situated in the eastern portion of this district and is 4 to 6 feet wide and I never saw a piece of the rock but that contained mineral. It is now considered the equal of the Sheba or Mammoth, being on the same range north, but I consider it superior to either of them and believe it will furnish many a man a "home ticket." There are three cmpanies, on tbis ledge and $I$ do not think there is any choice in them, one is about as good as another. The ledge is easily tunneled as the mountain is abrupt. A plenty of wood is right about the vicinity of this leage, and water sufficient for steam purposes. I know of no district or place more suitable for a mill than this Ravine at this lode. Several 'very rich ledges have recently been found on this range. Among them is the Tetna. It is equally as large as the Norton and has as fine miueral in the croppings as is generally found 50 feet below the surface. We come now to speak of the

## Santa Clara District.

This is a small district, but a very rich one. The Magna Charta stands number one in this district. It is a well defined ledge and contaius much very fine mineral, and is considered
a continuation of the Sheba Norch. I can simply say that it ranks second to noue in these mounaius and as suon as The Wyoming, considered a continuation of the Marnmoth, is truly a favorite leige, the mineral is of finer quality, if anything, than the Magna Charta. It is a bold well detined ledge aud held very high by the owners. The Kenlucky is another favorite ledge of this district, contains plenty of mineral but not of quite so fine a quality. The Butte is well known to you all as being a very rich, small ledge. Tunnels are being run to all these ledges and much money has been expended on them, besides a great deal of labor, and I am certain this summer will prove this one of the richest distriets in Humboldt Co. There are many other ledges here that are worth noting but I will defer the mention of then uutil my next letter.
M.

## THE PIKE'S PEAK QUARTZ MINES.

A correspondent of the Territorial Enterprise, is giving some very interesting accounts from the Pike's Peak coun try, some of which we have already copied. We give further extracts from his correspondence, to-day. We have taken the liberty to rearrange some of the paragraphs.

## pectliarities of the nines.

The Pike's Peak ores contain no quartz. They are iron pyrites more or less mixed with copper pyrites, lead, antimony, etc. The croppings of the leads are a kind of brown granite, containing some quartz and a considerable amount of iron. On sinking upon this, however, veinstone of any kind is not found. The lead is a simple crevice in the gran-
ite bed-rock filled with a mass of pyrites. Free gold is ite bed-rock filled with a mass of pyrites. Free gold is
sometimes found in the quartzose granite forming the cropsometimes found in the quartzose granite forming the crop-
pings, but is never seen in the ore itself. I was shown pieces of pure granite, quite rich in free gold, of a beautilully bright yellow color. I saw but one or two specimens of pure quartz in which gold was to be seen., The veins of pyrites run in a northeast and southwest direction. There are due north and south. These have never been prospected to any depth. The miners don't like them. They don't want quartz-iron is what 1 hey are after.

When these mines were first worked, the miners supposed When the quartz gave out and the iron came in, that their mines were ruined. 'then they all, in one grand chorus cursed the iron; now they curse the quartz, aad hope to get down to where there is nothing but iron. While in Central
City I was told that when the Gregory lead was first turued to iron, many supposed the country gone to the dogs. The owners as well as the principal business men of the 'rerritory were greatly alarmed. The Gregory then was and still
is, the leadıng mine in the country. If it petered it was is, the leading mine in the country. If it petered it was
like the Ophir fizzling, or Gold Hill giving out-all other leads in the 'Territory would be counted as naught. To save the lead and the country it was proposed to raise $\$ 1200 \mathrm{by}$ subscription to enable the company to sink through their
iron. The money was raised and the work done. My informant was one of the subscribers to this fund, and be laughed heartily when he told me that it was soon discovered that the iron was richer than anything they had yeffound in their mine. They had raised twelve hundred dollars to en-
able the company to dig and hoist ore worth one hundred able the company to dig and
and fifty dollars to the ton.

## the ores

as seen at the mills, are wholly free from clay or dirt, being but a clear heap of mineral. The ore is generally of a dark gray color, with yellow, shining pyrites visible on its surface, and often showing many bright rainbow tints, such as red, blue, green and yellow. I do not doubt but the ores of many mines in Colorado contain a considerable per cent. of silver. The American Flag and Kentucky, sitnated near Central City, present much the same appearance as the Sheba and other ores from the Humboldt mines. None of the mills at present in operation in the Territory would save anything but native silver. I saw ores from clear creek County, south of Central City, from a lead called the Whale, which were principaliy antimony, and might contain considerable
percentage of silver. I was told iliat ores of this naturepercentage of silver. I was told that ores of this naturequite common on the west side of the mountains, but were not much liked by miners, leads in which iron predominates being more sought after.
The leads are not so wide as with us, generally but from two to six feet; but a few are much wider. In every case
the ore of a mine becomes rich as the mine increases in the ore of a mine becomes rich as the mine increases in
depth; this was told me by everybody, and 1 could find no person who knew of a single exception to this rule. What everbody says must be true; therefore, all the Pike's $P_{\text {talk }}$ folls haro to do is to go down deep enough and all their mines will pay. The country is full of leads, but very few of them are worked-only scratched over.
peculiar mode of measuring tie ores.
A cord of ore weighs from five to eight tons, owing to the
nature of the ore. Ore from near the surface, containing
more or less blossom rock, is more or less blossom rock, is geterally considered higher
than that from a greater depth, containiog little rock. The than that from a greater depth, containing little rock. 'The
awkward plan of calculating and measuring their ores by the cord, instead of the ton, has done much to hurt the country. It has kept the miners and capitalists of California and Washoe in the dark as to the richness of the Pike's Peak mines. The papers of Colorado might just as well
tell the mining world that they bad ores paying ten dollars per basketfull as to say that the Bobtail pays thirteen per cord. People know that there is a great differeace in the weight of rock-a great difference in that from the same of ore crushed to obtain the sum mentioned, and not knowsing, are apt to throw aside the Colorado papers and think no more of the Pike's Peak mines, Assayers find measuring
ores by the cord vervinconvenient, or they must not only ores by the cord verv inconvenient, or they must not only
weigh the sample tested, but find out what part of a cord it is-this, an assayer tofd me, was generally ascertained by shrewd guessing. Ores are all hauled by the cord. Thus the man who has a rich lead, which is generally nearl
iron, and very heavy, gets his ore han iron, and very heavy, gets his ore han ed at the same price as that paid by the man who is just openingr his mine and has
not yet got down to the rich heary rock. It is also crushed by the curd, and a cord of the rich and heavy rock is crush ed just as cheapas the poor and light ores. Were these light ores hauled and crushed by the ton, the saving in ain hundred toas mignt make the mine a paying institution its owners, instead of a losing one, as often happens. few pairs of large scales erected in convenient places wo soon effect the desired change, and make the doings of our Pike's Peak friends intelligible in other parts of the mining world.
The price charged per cord for crushing is fifty dollars ten dullars per ton, calling a cord five tons, or eight dollars and two bits per ton, counting eight tons to the cord. 'This leaves a very handsome profit to the owner of the ore wher
the cost of digging is not too great. The ore canot be dug. out with pieks, however, as is geat. The ore cannot the case with but every pound must be blasted out.

## mining laws.

When a miner has found and recorded a lead it is his to all eternity. Glorious for lazy miners, but bad for the pro gress of the country. A man may locate fifty or a hundrev hims, then set down and wait for somebody t.o strike som hing rich in the leads on which he owns. This is the plar
of development chosen by the majority of claim-holders) of development chosen by the majority of claim-holders,
One hundred feet ona lead is a claim-that is, one huadrec feet square, and if a lead pitches out of this square it belongo to the man whose square it enters. But, in general, the ule, takes his clain by himself-is himself the company ano rule, takes his clain by himsel-is himself the company ana
the company's mother. There should be some time fixe for the expiration of the location. T'here are doubtless inany very grood clams standing recorded in the names of personi
who have got been in the country for vears : according th who have not been in the country for years; according be liable to be driven off by the first locator, should he hea that something good had been found on his old claim.

## mills of pike's penk.

There are no large or very custly mills in the Pike's Pea ines. Their best mills are such as could be built at a cos mines. Their best mills are such as could be built at a cos contain but little machinery-nothing but the stamps crushing, and copper plates and blankets in slaices for saviv the gold. They do not even use the shaking.tables commo in the old-fashioned California mills. Nearly all the saved is caught on the copper plates. Their stamps diculously light, weighing but from four to geven hun
pounds. Then the cams by which they are hoisted ar long that the stamps are obliged to take a laughably journey upward, when we consider the effect of this before coming down. It would appear to a Washoe man, watching one of these batteries, that the stami spent nearly all theirtime in going up, yet, if he watchi closely, he will find that every once-in-a-while one of comes down-comes down with a crash equal to that of
clasher of an old churn. All the mills, however, are such slow coaches. Many millmen have shortened cams, aud consequently therr stamps no longer go such lo journeys heavenward; but they nearly all retain, believe. and swear by their light stamps. A row of batteries twenty, forty or eighly stamps, each stamp weighing a tho sand pounds, would frighten them, especialy if they can down as frequently as they do in our Washoe mills. Noa rastras or pans are ased in any of the Pike's Peak mill
that I saw or heard of, with one exception. The mills not save much over one third of the gold shown by assay be contained in the ores.

## richness of the mines.

They have, perhaps, twents leads paying one huadred d lars and upward per ton, many that pay from twenty to fifi
The Gregory, Gregory Extension and Bobtail are about t best paying leads at present, though there are a dozen or ers nearly as rich in the same veighborhood. These " pay from five hundred to fifteen hundred dullars per cord, from one quarter to one fifth that amount per ton. Assas
madelong since, have shown that a large number of the vel

## MINING AND SCIENTIFIC PRESS.

$\left\lvert\, \begin{aligned} & \text { o the country were of extraordinary richness. Capitalists } \\ & \text { vee thenin thil thiy a chousand times over, and it is it shatme }\end{aligned}\right.$ bat they slonala hase hugued the ir wealets to their hoarts and Howed poor men ty strurste for yoars with difficulties that the seinne which capital could have combandmal would fwever, han they upphind uprent that Pacific insteal of Atfitic coast they would have met with better success. Now, en thry hurin to theed no assistance, plomty of capitalists -ill comi in apd build mills, availing thethselses of the ard marned experieneed of men whon have strugyled manextent of tile mines, etc.
One by one the mill owners are getting their heads above ater, ibid wo may soon expect to see I'ike's Peak one of (1) must flumisning minin:s countics of the world. The me is now near at hathd when the inineral wealth of the potry will b) properly estimated. Men of capital will pen come in and iuvest in the mines. From all I comble arn, there is an manensas scope of mineral country stretch zaway nurih. south ind west of the Central City mines, ach has beou littlo prospected, and that only by persons it the lonk-out for iron. Native tin has heen foum in tine of the westorn counties by miners when panning for

This was supposed by them to be metalic silver, and a time a silver fever raged in that section.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable ineral deposits, other than gold, in almost every section of he State, which have of late been made, it is but reasonalo to suppose that prospecting even in California, has but ist commenced. The simplest and most universal of all rtaliferous deposits is gold. It rarely occurs in any othe rm than that of "free gold" which is readily discernable to e naked eye. An examination of any rock or earth for fold is an extremely simple process. If its prespnce is susected in alluvium, the simple washing of that alluvium in a an is an invariable test. If in rock of any description fral rock pounded fine in a mortar and washed, in the sane panner as alluvium, will usually expose its gold to the na ded eye, if there is any there in paying quantity. The only sceptions, are where the gold is contained in iron pyrites, - copper pyrites containing also iron. In either of the vo latter cases the presenre of gold may be readily ascerfined by placing the pyrites in any suitable vessel and - eeping the contents at a moderate heat for from four to six ours, with frequent stirrings, by which means the sulphu ill be evaporated, and the copper, if any is preseut, chang. 1 to a dull red col.rr, and the gold retaining its natural aprarance, on subjecting the whole to the usual panning rocess, may be readily seen by the naked eye.
Not so with other metals. Silver, copper, zinc, nickel, ad many others appear in such a great variety of metalliffous forms as generally to defy all but the most practical nd scientific eye. No description of these ores can be ritten which will afford any very important aid to the inxperienced in making explorations. Alter reading depriptions, however, and carefully examining the specimen escribed, the explorer may go out and search with some deree of confidence and intelligence. A study of the char cteristics of the sulphurat ores alone, would lead an ex lorer to pass over, entirely unnoticed, the rechest varieties f the ores known as Chlorides or Horn Silver, which, from 10 facility with which they may be worked, and their usual chuess, are generally considered the most valuable of silver

There is much reason to believe that this variety o ilver ore will be extensively found in all the volcanic reions of this State. So with many other ores.
Considering the great difficulty, in the present lack of abinet collections, and other means of instruction, to acuire a practical minerallogical and geological education in his State, and desirous to aid, to our fullest capacity, the levelopment of our mineral resources, we hereby make he offer to miners, prospectors and all others, who in their ravels or explorations moy come acruss sjecimens having The appearance of rarity or value, to carefu'ly examine and pronounce upon the same, free of clarge, as to their charleteristics, value, etc., whenever any such specimens are prought or sent to this office free of cost to us. We have Aready been called upon in many such cases, and we shall t all times be willing to give our attention to any such re uests which may be presented to us.
Oin olbject is to furnish the miners of California with ev ry class of information which slall be valuable to thom in
the progress of thwir calling and in the developent of the minnolal resturees of the statl, and we know of no way in which wet can divote a prortion of our time more to the interests of miners than in the manuer here proposal. The only equivalent we ask is that they shall sh what they reasonably cun to sustain and improve tho paper devoted exlusively to their interests.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookvut for any new mineral. I'ne ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusuul appertrance in conformation, color or other characteristic, attention shoulh at once be given to it. There is scarcey a piece of quartz or rock of a quartzoze nature, which presents any uncommon nupearance in texture or color that has not been thus modified hy the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should bo carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not bo passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issuea series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notic of the California prospector; and we have the promise also, at an early day-probably within a week or two-of a series of articles under the head of "Tre Mr ner's Laboratory," which will be prepared especially for this paper by one of the most skillful me'allurgists on this coast, and which will be found of great value to the mining public.

SAN FRANCISCO MINING NOTICES.

Assessments upon Mining Stocks have been levied as follows :-

Garabaldi-Assessment of $\$ 1$ per share, levied March 2nd.
Sutro--Assessment of $\$ 1$ per share, levied Feb. 23, payable March 23.
Silver Quartz Mill Co.-Assessment of 5 per cent. levied Feb. 22 payable March 28.

Napoleon (copper.)-Assessments of $\$ 3$ per share levied Mar. 3, payable in 30 days.
Golden Age-Assessment of one dollar per share levied Feb. 24, payable March 26.

Washoe Gold \& Silver-An assessment of 2 per cent. on capital stock was levied Feb. 16, payable Apr. 1.

## general notices.

Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Subscribe. - Are you a miner and not a subscriber to the Minina and Scientific Press? If so, you are an annual loser of many times the price of \& year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanies, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, sou can fiud no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the MrNing and \$cientific Press. We invite all to send us their names and four dollars, or twa dollars for six months, and become patrons of the only mining paper printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, ou the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper afler being a constant read or of it for even that short period.

## itlining anis sciontific opress.

 C. W. M. SMITH and W. B. EWER, - ; . . . Proprietors.


## To Printers.

Ax Interret in ono of the most fonrishing and best paying Nifwepa per onfery in the mountains is offered for bale on casy frims. portunity is herely presented to uny frinter desirous of entabishing himelf in at gnod business in one of the healthest, most thriving aud delightfal mountain towns in the statos. Fur further iuformation enyuire at this ful mo
oflec.

## MINING AND SCIENTIFIC PRESS.

The only mining, mecianiel and scientific PAPER ON THIS CONTINENT.
THIRD YEAR: VOLUME VI.-NEW ERRIES 1
A uow rolume of this extensively circulated paper commenced Sept. 11, 1862. It is iutended that ervery number slanil be replete with information concerbing Mining, Scientific, Mechanical and Industrinl purkuits, together
with several original engravings, of now ibventions, ete., prepared expressly for its columns.
This paper is devoted to the above purposes, together with the interests or Science, Arts, Agriculture and Commerce, and any general information that may be of interest to the render: and it is the intumthon or the proprie tor to spare no paius or expense in makiug it equal in iuterost and valuable antion to any paper yet published.

## The Mining Interest!

Will find it of great waluo, as it will contrin all tha news apperlaining to Mining, the prices and eales of Miniug Stocke, yew inventions of Machincry adtured to tiat gurpose, and of every thing genorally that may be of service to the Miner.

## The Inventor!

Will find it an excellent medium for the purpose of bringing his insontion into notice, of ascertaining the progress of invention in this and otber countrues, and also of receiving any information that may be necessary in outaining his patent, the preprietor having had great experience as a
Patent Agent, together with facilities at Washington that enable him to ob ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly benefitted by its perusal, as each number will contan sers eral original engravings of new machines and insentions, together with y large amount of realling matter appertaining therets. We are constantle shall contiuue to extract whaterer may be of bencfit or interest to ou-

To Chemists, Architects, Millurights and Farmers \& This journal will be invaluable. All new discnveries in Chemistry will be given, matd a large amount of information of cratservers Archutcts and dilwrights win bo foum in our cone given of agricultural implements, and the forming interest generally will be amply discussed.

## Terms.

To mall subscribers :-Four Dollars per annum Club Fates.
Five Copies for Six Montes, \$8.
Ten Copies for Six Months, $\$ 16$
Ten Copies for Twelve Months, $\$ 30$
Fifteen Copies for Twelve Mouths, $\$ 44$.
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$
Nnmes call be sent in at different times and from diffrent Post-ofices Specimen copies will be sent gratis to any part of the country.

## EWER \& SMITHE, Pablighers,

Room 27, (formorly) U. S Court Bnilding, Corner of Washington and Ba

## Our Mint, its Rules, Charges and Operations.

For parting silver from gold when gold
is below 300-1000ths. fine ....................cts per oz. "from 30-100ths. to $750-1000$ ths fine. $7 \mathrm{cts}^{\text {" }}$. oz $750-1000$ ths to $950-100$ ths " 14 cts
Defosits Silver Bulidon-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.

Refining charges (only where gold is contained) proportion of goid 1 to 3003 cts. per oz. gross weight

301 «500, 7cts,

## Deposits for Fine Bars

$\$ 1$ 16-4-11ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained 1,6 perct. on gross value of gold for coiving. Refining charges as in purchases.

Bars Sold From Refinery
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.
\$1 16-4-11 ths. per standard oz. 15 per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
\$1 16-4-1] ths. cents per standard oz. 1'丷 per et. gross value of deposit for making bars.

## MINING PROGRESS IN ESMERALDA.

From the local papers and from private advices, we notice that mining operatious in Esmeralda, aud that portion of the Eastern slope, iucluded in Mono County and the eastern section of Thlare, are being pushed with much vigor aud energy. The mostactive effiorts are being made tu properly develop the mines, und render actual the suppositious values now represented upon the stock issues of the Miuing Companies of that regiou. We subjoin a few remarks collected from various reliable sources:

The Aurora Times speaks or a bar of gold and silver, the product of $91 / 2$ tons of rock and boulders taken from the surlace of Mr. Preble's clam on Silver Hill. The bar as sajed $\$ 2932$ in gold, and $\$ 35732$ in silver.

The Urul Company are rigorously executing the work up. on their lode, located upon Last Chance Hill. Their stock at last dates was held firmly at $\$ 525$ @ \$j500.

The Bamboo are pushing ahead with their work night and day, and taking out rich ore, which is being crushed at Belden \& Gregory's mill.
The Antelope is taking out better paying ore than ever. The Star of April 4th speaks of the rock which was then being raised as showing mach gold and streaked with blue veins of silver sulphurets. We see co reasou why the stock of this company should have depreciated of Jate in this city. It was sold at the Esmeralda Stock Board on the loth iust. for $\$ 400$, since which time it has ranged in this city from $\$ 300$ to $\$ 340$. This mine is evidently improving with its depth. "There are two shafts now being sunk upon the mine. This Company crushes its own rock, in an 18 stamp mill, with 16 amalgamating pans.
The Jennie Johnston, located between the Wide West and Garabaldi, is now being opened. The parties engaged in sinking the shaft are taking out rock which shows much free gold.
The Rose Dale, the Manning, Spring Valley \& Magnet consolidation, are also in progress of active development. The latter named company is lucated but a few yards distant from the Wide West.
The Locomotive, on Silver Hill is tarning out rich rock. Free gold and silver sulphurets are seen profusely in the rock. The shaft is now down about 100 feet and the rock is represented as appearing equally as rich as that from the Utah.
The Lady Jane, next adjoining the Locomotive, is also turuing out very fine looking rock, plentifully sprinkled with sulphrurets of silver. Its close proximity to the Antelope and Utah and other rich claims, aside from its actual developments warrants the belief that this ground will soon become very valuable.
The quartz mills in this region are enumerated as follows in the Aurora Times :-
The Union. Antelope and Brodie, in good order and running. The Wide West (new) also running and the Spriug Valley. The Winter's mill, up to very recently in good order and running constantly.
The following are not running-most of them being under repairs-but will be ready to resume work in a short time : Moses, Wide West old mill, Napa, Gibbons, Tucker \& Stark.

Mr. Fogus of Sacramento, contemplates the erection of a new mill. The material and machinery are on the way, and expected soon to arrive. Mills are needed, and those of the very best and latest improved apparatus atlached for saving the precious metals. The rock is here which contains sufficient gold and silver to insure large profits to the capital and labor engaged.
The Wide West, accorcing to the Star, located on Last Clance Hill is being worked night and day. Their new mill is working finely. It has 20 stamps and 40 pans. Preparations are being made for the erection of additional buildings for the accomodation of settling tanks aud furnaces.
The Pond Company at latest dates were sinking an air shaft for veutilating purposes. The rock from this mine is crushed at the Union mill.

The Fallstaff are sinking a slaft on their claims, 100 feet deep. The Silver Hill Consolidation have 75 tons of rock out.
The Bright Star, or Middle Hill, have sunk a shaft to the depth of 210 feet, at which they commenced drifting for
their lode. The 'Tiger is down 109 feet and have 75 tons of rock out. The Strawberry have a shaft down 100 feet and are on the ledge with good indications.
The Climax have a shaft down to their ledge, which is 8 feet inside at the point of intersection. The Hanson, on Last Chance Hill are down 65 feet, with a good ledge at the bottom of the shaft, and rock said to bear much resem. blance to the Ophir. Work is being actively prosecuted in numerous other claims, from which importaut developments may soon be expected. The miners of Esmeralda have adopted the right method of bringing their mines into no-tice-by thoroughly developing their values. Speculative mining will not build up any place permanently.
The Bulietin's Esmeralda correspondent of April 13th says :-
The new Wide West mill has at last started, and for completeness of machinery and general success, it is unqualled in the district. The mine looks magnificent and is rolling out tons and tons of the richest kind of ore. The Antelope mill is running and the rock yielding largely. The Union mill still coutinues on Poud rock, with splendid suc-cess-the last clean up yielded over $\$ 100$ a ton. Gregory's mill is crushing Suubeam. Bodie's mill is still runuing on Budie rock. All property in general is looking up, in the face of thousands of tons of quartz all stuck up, waiting fer a turn. A new mill said to be a very fine one, is on the way here, belonging to a Mr. Fogus, late of Sacramento. He has a small battery atlached to the main ones, calculated to crush a few hundred pounds of rock, and from that to judge of the value of any large lot sought to be worked by any
company or offered for sale to the mill. The idea is an excompany or offered for sale to the mill. The idea is an excellent one and should be adopted by all mill men of the district.
The Winters mill is said to have passed intc the hauds of the Real Del Monte Consolidation.
Work is going on at a great rate all over the hills, and incorporations are the order of the day. The superintendency of the Bambos has changed hands, Mr. Kyle taking the place of Dr. Howard. The change is expected to be productive of great benefit to the company and shareholders,
as the new superintendent is one of the most thorough, as the new superintendent is one of the most thorough, prac-
tical miners in the country. tical miners in the country.
a contract is being let on
A contract is being let on the Young Winnemucca, for a tuunel of 700 feat, to tap the ledge 350 feet deep. The company has taken up a mill site near the proposed commencemeut of the proposed tunnel, and they will nu doubt get the water needed fom the tuanel, as the shaft at 60 teet depth has an abundince.

## PROJECTED NEW PUBLIC EDIFICE.

There are now six Temperance organizations in this city which pay an argragate of $\$ 132$ per month for rent. We understand that it has been proposed to erect a building, in some couvenient locality, fiuishing off the lower floor for stores, which it is supposed will let for a sum sufficient to pay a fair rate of interest on the entire property, thus securing a hall, rent free, to the several societies. An architect has already prepared a design well calculated for such a structure, and we understand that there will be no difficulty in procuring the necessary amount of funds, as soon as a suitable lot can be found.
We believe the Odd Fellows put up their Hall or Kearney street, on this plan, and we understand it works fully as well as anticipated. Money can now be had at a yery low rale of interest. Indeed a large amount might be readily raised in the city by voluntary contributions in aid of the undertaking. Many, who never have, and probably never will unite with or take an active part in any temperance organization, are, nevertheless, free to acknowledge the great benefit derived therefrom by commanity at large, and are not only willing but anxious to do something, pecuniarily, for their aid. The donations from such sources would probably be amply sufficient to make such an advance on the property as would render the balance of indebtedness perfectly secure at the lowest rate of interest-say one or one and a quarter per cent. We trust the temperance people will be able to mature some plan for building on this basis. It would have a tendency to unite more closely the friends of the cause, and to give permanence and stability to the several organizations.

Apponntarents.-Professor Whitney, the State Geologist, has been named as one of the corporators in the Act recently passed by Congress incorporating the National Academy of Sciences. The first meeting of the Academy is proposed to be held in New York. W. H. Brewer also of the Califoruia Survey, has been appoiated to the Professorship of Natural Scieuces in the College of California.

Homboldt Claims are beginning to be more favorably considered than heretofore, in this city, and a large amount of capital is finding its way into the "feet" of that region. The Shéba and other leading Humboldt stocks are be-ginning to be enquired for.
We had the pleasure, a few days since, of meeting our friend Charles Barber, who has just returned trom that, res gion, well stocked with "feet" of the most approved quality. We bade him adieu, about one year ago, as he started out turer into those distant rearions, We we pow hopeful adven turer into those distant regions. We dow have the pleaswill to day enable him to "bauk" a goodly fortune for any man. We rejoice in his prosperity, and cite it as but one of the numerous instances of good fortune which this wonderful country is daily developing.
Mr. Barber brings most encouraging-accounts from the Humboldt mnes and has communicated much interesting and valuable information with regard to them, which we shall communicate to our readers in future numbers of the Press.

Consolidated Board of Broeers.-The Second and Third Board of Brokers of this city effected a consolidation, last Thurgday afternoon, and elected the following ofticers: President, Samuel Purdy ; Vice-President, J. D. Stevensonj Secretary, J. H. Gager ; Treasurer, J. D. Mathewson; Ser. geant-at-Arms, C. Watson. 'The initiation fee is fixed at $\$ 100$. The Board now numbers 97 members, and meets daily at 13.2 o'clock P. x.

Many people consider the world as the worm does the interior of a nut-simply a place in which to feed and grow fat.

The sales at the N. Y. Stock Exchange Board for the week ending March 1st a mounted to $\$ 9,209,000$.

## GENERAL MILING STOCK REPORT.

REPORT UF SALES
At the San Francisco Mining Stock Board,
For the weok ending April 181h, 1883.

|  |  |
| :---: | :---: |
|  | Total No . Silus |
|  | Slaures per ft |
|  | Tar Yalu. |
|  | Mouday. |
|  | Tuesday. |
|  | Wednesday. |
|  | Tbursday. |
|  | Friday. |



## REMARKS

Notwithatanding the tratuctanatu the Mintug Market, for tho pant





 ith all mathag aperatioun of a progrensivi vaturu.
asong thentecks wheh buve nuvajeed wo note the Datrey, Savage, orth Powsi, Ludy Bryun, Cbas. Cancy, Nupoleon, Utah ubd Governur

Among those which have declused are the antolopre, Chollar, Silver 11 in id loond. In each cane, the decine in but a siaple duetuatiou from which is will in all probubsity fully recorer auther weelk.
In Uphor, Gould \& Curry, Cuntral, savage and Challar, but litto has noen


It wo nute but one transacturn of twe feut uthly.
The Ikmes ban beru in gond dermand thoughout tho week. Wo dote an

 an mare aro vory encouraging. Welast weck gave the results of the rat and sucond weeks erurlaug as $\$ 0,600$ aull $\$ 1,000$. We nuw add the ritand week at the mater lally tuereased digure of 30,000 .
Ohas Cancy. Westill cantiune to bear fovorablo accounts from thi fee, wheh is tho tirnt hinbt extersiou of the Daney, Thuy Lave struck Tolege in thole aew shaft at the depth of 50 feet, with good itadicitious
 o note th mitertal advalue in ita atuck during the week. It conmenced

Lady is yan atili couthues to bo bargely dualt in, and during tho pant


## ESMERALDA.

Wide Treat has beeu subjected to a fluctuntion from $\$ 300$ to 385 , ceused whassensrucut of $\$ 50$ for share to ifquidute judebteduese, at a time

 sexament. The Wide West is undeubtedly all that in represeated, and wo It ho utancst cundedere of sova layimg tho plearure of placing it on the Lof dividun payitg muce.
Antelone has declined about $\$ 30$ during the week. We are unablo to see y reusell for a declime in this slock. It appleara to remain frm at Esme huda, where a large portioth of the stock is held, and whoro the condon of the maive alould be bert kuown. It is repurted that the mine louks ell, is turning unt good oock, and that the mill is workug fiucly.
andithon ought not to admit of auy depressing achou upon its stevk. Silver Hial Las fallec off in cuaséquenoe of advices that they had los ielr suit with Hathover.
Thu Stelowes, a uew cumer in this market has been much sought after ring the week. Commescing ut $\$ 50$ it advanced to $\$ 125$ und subsoquent dechued ws \$00 @ 80 and $\$ 100$ seller 30 days.
At foteresting detaif al oprations in lismeralda will be tound upon ou

## COPPER STOCKS

Napoloon Stock has met with a muteriul advance during the week,
 fisequence of favorable reporta from the mino which had recently been aced unver a acw and able mauago unent.

## transactions in seares, for the webk

## nevada stocks

Ophir-12 at $\$ 2,400$.
Gonld \& Curry-4 at $\$ 3,700$.
Yutosi-10 at $\$ \overline{อ ิ 0, ~} 11$ d.
Chollar- 8 at $\$ 400 ; 4$ at $400 ; 16$ at 380 .
Chs. C'aney-19 at $\$ 120$, br 10 ds; 10 at $100 ; 61$ at 110 ; 6 at $120^{\circ}$ br 30 d.; 19 at 105; Il at 108; 45 at 110; 19 at $15 ; 5$ at $1071 / 2: 5$ at 115, b $30 \mathrm{~d} ; 5$ at $151 ; 38$ at 135, b 30 s; 15 at 125.
Burning Moscow-50 at $\$ 190$, br 30 ds.; 20 at $117 \frac{1}{2} ; 12$ t 16 u ; 120 at 150 , , $30 \mathrm{ds} ; 20$ at $1621 \mathrm{c} ; 20$ at 150 , 830 ds ; 0 at 170, b $30 \mathrm{ds} ; 80$ at $165 \mathrm{~b} 30 \mathrm{ds} ; 10$ at $1521 \mathrm{~m} ; 20$ at

Daney- 60 at $\$ 313,12$ at 325 ; 36 at $315 ; 60$ at 330 b 30 ; 20 at $300 ; 16$ at $305 ; 60$ at 324, b $30 ; 20$ at $310 ; 60$ at $50 ; 12$ at $355 ; 40$ at $360 ; 80$ at $365 ; 60$ at 400, b $30 \mathrm{~d} ; 3$ t 340, b $30 ; 4$ at $330 ; 20$ at 400, b $30 ; 40$ at $455 ; 8$ at 405 at $500 ; 20$ ut 525 b $30 ; 12$ at $495 ; 28$ at $480 ; 20$ at 485 ; 0 at 520 b $30 \mathrm{~d} ; 20$ at $515 ; 20$ at $5221_{2}^{\prime}$, b 30 d ; 20 at 490 North Potosi-5 at $\$ 43 ; 30$ at $45 ; 20$ at $48 ; 15$ at $50 ; 10$ $\mathrm{t} 52 \frac{1}{2} ; 4$ at $56 ; 1$ at $57 \%$; 25 at 60, b 30 d ; 4 at 55 ; 15 at I1/2; 10 at 42 ; 39 at 41 ; 45 at 45 , b 30 d; 50 at 46, b 30 d; 5at 421 ; 10 at $41 \frac{1}{2} ; 1042$.
Lady bryan--57 at $\$ 14 ; 30$ at 15 , br 30 ds.; 175 at 16, 30 ds ; 50 at 143 ; $65 \mathrm{at} 14 ; 50$ at $17 \mathrm{br} 30 \mathrm{ds}_{\mathrm{i}} 22$ at $41 / 2$, br 30 ds ; 10 at $131 / 2 ; 50$ at 18 , br 30 ds .; 300 at $19, \mathrm{~b}$ $00 \mathrm{~d} ; 10$ at $15 ; 132$ at $18, \mathrm{~b} 30 \mathrm{~d} ; 210$ at $18 ; 50$ at $181 / 4$; 00 at $15 ; 160$ at 18, b $30 \mathrm{~d} ; 60$ at $15 \frac{1}{2} ; 50$ at $191 / 2, b 30 \mathrm{~d}$; 0 att $16 ; 25$ at $161 / 2 ; 100$ at $151 / 2$.
Yond-lu at $\$ 70$. Madison- 10 at $\$ 12 ; 20$ at 15.
Nevada- 10 at $\$ 37$. Savage- 2 at $\$ 2250$.
Burnside- 15 at $\$ 40 ; 42$ at $36 ; 5$ at 36 .

Reesu Kiver-125 at $\$ 6 ; 100$ at 61 ; 175 at 53 \%; 100 at
 0 at $\overline{\mathrm{T}}, \mathrm{b} 30 ; 10$ at $6 \mathrm{~F}_{1}^{1}, 20$ at $70, \mathrm{~b} 30 \mathrm{~d} ; 15$ at $66 \%$. Lil Duradu-30 at si2; 5 at $70 ; 5$ at $72:$
C'uppers de Mills, Nu. 1.-5 at $\$ 12{ }^{2} 5$.
Uazd Green-10 at $\$ 3$. Sucrumento-7 at $\$ 10$.
Guvertur Nye-20at 815 ; 100 at 15, s $30 \mathrm{~d} ; 10$ at 13 5 ut $13 \frac{1}{4}$; 50 at 1.4 ; 35 ac 12 .
Halo \& Nurcruss-10 at $5500, \mathrm{~b} 30 \mathrm{~d} ; 10$ at $875, \mathrm{~b} 30 \mathrm{~d}$ 20 at $840 \mathrm{~b} 30 \mathrm{~d} ; 10$ at $890 \mathrm{~b} 30 \mathrm{~d} ; 10$ ut $820 ; 10$ at 875 b 30 d . Sunta Rosu-21 at ¥ī.
Cedar Hill Tunnel-100 at $\$ 5$; 5 at 6 .
Melones-5 at sil05; 17 at 100 .
Peytona-10 at $\$ 30$. Union, Gold Hill-10 at $\$ 25$. EsMERALDA stucks.
Wide West- $\$ 10$ at $\$ 385$; 10 at $375 ; 10$ at 350 ; 75 at 375 b $60 \mathrm{~d} ; 10$ at 370 L 60d; 10 at $3675 \frac{1}{2}$, b $30 \mathrm{~d} ; 25$ at 375 ; b 30 d ; 2at 355 ; 40 at $300 ; 5330$ b $60 \mathrm{~d} ; 15$ at 315. Antelupe一15 at $\$ 300 ; 43$ at 300 (a3 320) 14 at 300 .
Bambuu-10 at $\$ 48$. Yund- at $\$ 82!2 ; 10$ at 85.
Silver Hill-5 at इ52; 5 at $5212 ; 10$ at $50 ; 28$ at 45 ; 40 at 40 ; 50 at $40, b 30 \mathrm{~d} ; 25$ at 42 ,
Utab-43 at $\$ 100 ; 25$ at $105 ; 10$ at $110 ; b 30 \mathrm{~d} ; 30$ at 110. De Soto-5 at \$75.
rucker-15 at $\$ 3 ; 125$ at 2 ; 5 at $21 / 2 ; 30$ at 21 cusu stucks.
Josephine- 35 at $\$ 22 ; 10$ at $24, \mathrm{~b} 30 \mathrm{~d} ; 10$ at $24 \frac{1}{2}, \mathrm{~b} 30 \mathrm{~d}$ 24 at 24 ; 30 at 27, b 30 d ; 85 uto $23 ; 20$ at 25 , b $30 \mathrm{~d} ; 20$ at $26, b 30 \mathrm{~d}$.

Mina Prieta-2 at $\$ 150$.

COPPER sTocks

Napoleon-20at $\$ 33 ; 45$ at $30 ; 20$ at 34, b 30 d; 6 at 36 ; 30 at $40 ; 20$ at $26,630 \mathrm{~d} ; 12$ at $43 ; 200$ at $55,860 \mathrm{~d}$. California smelting Works-100 at $\$ 4.87 \frac{1}{2}$.

## VIRGINIA CITY STOCK LIST.

Corrected for the Mining and Sciuntiac Pross, Friday, April o Bld.
Virgina Mining Distri


## WASHOE STOCK REMARES.

For the Week eudiug April II th, 1863
Judging from the limited reports for the week ending with the present
date, aud from uther indications we iufer that tho stock market in Virgiaia city hus been somewhut sluggisll for the past six days. On Tuosday a terrible storm of wind and driving snow bept the streets pretty clear of pedestriuns, and uppeared to put a pretty ellectual check ou traveactions of all kids. The absence also of nuy specinl excitement or "big strike" no
doubrproduced consideruble effect on the matket. The Euterprise reporter of Frisuay remarks wat the brokers seem to enjoy the apathy with much rel-
竍 ish, conscions that it must be of yhort duration. The bukiness hours of
the Boards were on that day duvoted to amusing assays at further deprossions, without a disposition even to fill orders or dispuese of stucks to ready purchasers. This tumporary inuction will be followed by unwouted animatiou, withoul a doubl, and that, too, within is fer days. The developments ovurywhere belug made must lead to an excitement in the stock market,
The Cscevt, on Cedar Hill, appears to have farnished the ouly item of
reported im alght. As a comecquance the stuck has advanced sondowhat, and in reperted to have beren muidat at $\$ 0$.
Thy Latucers Corupaty have struck mimeatome of a valuable lodge, and


 is shown from works two lutes hur the of Virginia, fand the verimble Cora

 OL Wedteestay wo atharen wore mathet at lead thats Shio.
 is dull at thesu Hgures; thrty foet sulh ou Shondity at est.
Vated Shates Tunnul shater aro adyancing and and be quoled at 3750 (9) 800 per quartor thare ut $\$ 16,000$, with a hatir teratud aud upward tondency. Huruside fe untroly iLachye, and is in inarket at $\$ 10$ (a) 42 60, without takers.
Nurton is salcable at $\$ 20$ @ 22 50, with littlo olloring at leas than $\$ 26$ © 760
Belvidere in marketuble at $\$ 20$, but higher bids aro domanded.
Thu Ifanaratee, a clatin finmediately back or the Beach \& loaxton, is in requeshat $\$ 10$, to $t l l$ orders from below it in generally held for higher ratus. It is a san Fraucisco sheorpormition.
Bultic is aa request at $\$ 16$ @ I 8 , at whicu rates two or three huvdred feet bave cluyged lands durmg the weok.
Eurokit, Gold Hill, in iu request at an udvauco, in consequence of developneuts. We quate it at \$45.
The United States Mining Companay wbo hold quite a number of parallel iedgen just to tho uorth of the Ophir nuve ther tunnel now it 1650 feet and are uxpucting every day to atribo the Cumstuck ledge. This compray own some tive or six parullel ledges. Thoir stuck whicts is now worth atout $\$ 10$ in the san Frauciseu market, will probably go up to a much greator tiguro as soou as tiseir tumel roaches the ledge. Among other sharen teuding upward in thu Yirginfu District, we may inontion the Fairview, Bachauans. Morty, Uaited states, Birdsall, Utah, etc., although no very decided advance has ac curred.
Goid hill blares are in high faver and many of them aro advanolng rapidly. Leon is galeable at $\$ 40$, Princess at $\$ 40$, Overmau at $\$ 45$, Belcher at $\$ 160$, Koh. i -noor at $\$ 150$, Yolo at $\$ 20$, Dunn ut $\$ 3$, etc.

## ESMERALDA stuck LIST.


traneactiuns of the week.
Bunker Hill, Bodie District- 75 at $\$ 15$.
Willow springe- 65 at $\$ 40$.
Magnet \& Spriur Valley- 30 at $\$ 20$.
Rebecca- 10 at $\$ 7 / 2$
Silver Hill, Bodie District-100, at private rates.

## DR. VA ZADT, <br> Consulting Physician and Surgeon. OFFICE:

Corner of Washington and Sansome Streets.
C. W. THomat, Plaining Mill, Califormia street, facing the Mission $\underset{\mathrm{m} 1 \mathrm{R}}{\mathrm{R}}$

TURNER, MARSH \& usGDOD, Successors to $C$. 0 . Turnor \& Co., importers
of Wiues and Liquors, S . E. cor. Frout and Sucramento sts. mi


Pambr, HaNscom, Co Coldide state Foundry, and Machine Works

## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO



## Volcanio Smelting Furnace.



 \{one whith as much an is counumpud by other procesone.
 whleh ukually cweape in a volathi. Forms.
The athemting of all intercuted in tho nubject in requested
Partive whlhing will be aslowed to erect $A$ rpinl Fur



## New Style of Lady's Buckle.

W. BOHM, INVENTOR \& PA'TENTEE

## THE : LLELCRIBEP HAVING OBTALNED TETTERS PAT


$\qquad$
Ther ith use.
 31 extel, , all wher buthede ias
Luctulmes, streragth Hud Appemrance.
The l'ohbe in rempectiully invitend to call and examino

021 Wating

 118 I sireel, sacramento.
ageris for the Phteutos.
Exery Bucklo sold will bo guaruatered as to its sttength
W. Bubsin, l'atentes.

LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Maving been connected with tho public works of the state of Ohio for 20 years, aud the public urvery of the State of California for 7 years. ALSO
state locating agent.
And an such having the anle of
600,000 ACRUS OF SEATE SCHOOL LANDS.

## At the low price of $\$ 1,25$ per Acre.

Terms-Twenty per cent in cash and tho balanc on a erentit of several years,
nor of Montgomery and California atreots.

## HAYNES \& LAWTON,

 mpoortas and delaras mCROCKERY, GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS, Silver Plated and Britania Ware, ETC., ETC., ETc.
NO. 516 SANSOME STREET, [CORNER OF MERCHANT,]
no16 San Frangisco. Sar Francrsco.

Mining and Stockexchange,
Mining stuch:s of Alll Firuds Bougle if Suted.

$\because$ Alrt tuets of Thites Farmsthed, Ble.
FREDERICK MANEFELL,
MECHANICAL A ARCHITECTURAK 1) RAUGH'ISMAN ,

No. $48 \pm$ Callforviasircet, curner of Laddsarf.
Drawiugg of Monsta mate for purties applying for paouta at Washiugtua ur Iutteon.


## A. ROMAN \& Co.,

Book Establishment, 417 and 414 montgomery streot, SAN FRANCISCO.

Ordern reapoctrully solicited and promptly attended to. A Treatise on Betallurgy, Comprising Mimughad Gen eral and Particular Motallargical Operations, Lito Matc. By flederiek Overman.
A Manuil of Murtlargy, or A Practicul Troatise on the
Chemiatry of Metats
Recorids of Mining and Motallurgy, or Facts and Mem orinada for the Use of the Mine Agent nud Smelter By Jamioa Phillspa and John Durlington

 Pigeot on the Chemastry and Sliming of Copper,
P'raction Mineral Asay ing athd Mining. Overman Golt Minuge and Assinving; by Phips. Miners' ('ompanon amp dinide, compilod by Silversmith, Assayers' Guldu; or Pratetcal directions to Assinyors, M Pructral Assiyngh, by Michell.
itwer Orts and sitver Jitues, by Pro. Blake.
Ire's Huctionaly of tits Tre's huctionary of Arts, Manutactures and Mines,
Weqshath's Mechancra or M whinety and Enginearing Weashach's Mcebauica or M whinery and Enginearing
Nevilu'd Hydruutic Formula Tables. Nevilu'd Hydruatic Formula Tables.
Frenelihs' C'memical Amalys.
Togerher with many othur wo
sud similar limes
Den Books lmparted to order on short notice. - Th
A. ROMAN \& Co.

417 \& 419 Moatromery street.

## READ THIS:

COAL OIL EXPLUDIUN.-ON SATURDAY EVENING,
while M: Brewster was enguged is tho Summor treet House in puaring coal oil from nute enn to amother bas wifu imprudeutly approached with a lighted candlo and the vil exploded. Mr'. Brewster's arms were budly
burlied, as were also the liuallat's burwed, af were also the hualand's hands. However
he succreded in mastering the Hamer, and preventing he succerded in mastering the Hames, and preventin
worso consequences.- Eveuing Bulletio, Aug. 4 .

## THEN THIS!

Comet Illumitating 0il !
Manufactured expressty for Stanford Bro.
Brand of Kerosene Is warranted free from Cumphene, Petruicum, or auy
other explosive maluerinl, aud is thie BEST FAMILY OIL IN THE MARKET. STANFORD BROTHERS,

Nns. 121,123 aud 125 cillife-1na street.

## Sur $\mathfrak{B e a f f t u t n g ~ f u ̈ r ~ e r r f i n d e r . ~}$

Erfinber, weldic nidit nit ber englididen Gpradje befant fint, tönnent ihre gMitthungeneil in ber beutidien Sprudje madich
Sfizzenvon Erfintungen nititurzen, beutlid) geidutiebenen Beidfreibungen betiebe man zu $^{2}$ abdrefiliten an.
J. SILVERSMITH, Exehange Buildiug, Roon 23.

## Gird's Budding Knife.

THE ATTENTION OF FARMERS, HORTCULTURISTS and Cullers, or manufacturers of Horticultural

 Sonable prices. Publishors of Mining \& Scientific Presss,
Addres sepi-sm $\begin{gathered}\text { (Aguat for 12atenteg, } \\ \text { Sal Fraciseo }\end{gathered}$

> SQUARZA'S PUNCH. wholvany AxD rexall

The Occidental Hotel is suw
Open for the Reception of Guests.
This hitse has alit the monerx mprove.



News Stand, oabinet for minerals;

A Branch Telegraph Office, Connectleg wilh all the lines throughatiluo country. LEWIS LFLAND is CO- Propri Sau Franelison, Jan. 1st, 1803.

## MUSIC! MUSIC !!

A. KOHLER,
maporter of etery descibiption of Musical Instruments \& Musical Merchandise SHEET MUSIC \& M'SSICAL. BOOKS. GENUINE ROMAN STRINGS, \&c.,
Lighte's New Patent Insulated Iron Frame is put into all of
Lights \& Bradbury's Overstruna Pianos
Wherever these wistruments ars known they
RANK AS THE FIRST AND BEST Sustone, delicacy of touch and durability. All the leading Musicians of the country have testified lo their superiority.
A. KOHLER, Agent fur the Paciaic Coast.
melodeons and harmoniums. from the cbiebrated manufactory of

> MASON \& HAMLIN,

Warranted sulperior to all others.
ne2. Send for a cutalogue and Price liat.
${ }^{\circ}$
KOHLER, Agent.

## To Mill Owners.

Wanted, by a puanon fully competont to the position a situation as Masing strelluniendiat in a Gold or Copper dnus. Thu appheant Was engiged for about eight years
as Superzutendent of Cuppur Miuiug Works in Coruwall and hiss acted in the same capacity in Gold slines in thi riato for the past soyen yearg. Ho has had much expe a Drumehsmau, a surveynr and an Assorter of Coppel Ore. Hu cala give imple testimonies as to his capucity
for tho positun tho secks. Apply at this Office.

## W. T. \& J. GARRATT,

## Gity Brass and Bell Founders

 Cor. First \& Market sts., San Francisco.B $\quad$ ABBET METAL CASITNGS, FTRE ENGINES, FORCB

 PUsES, lron steam pipe furnished with littings, de. ratt's l'atent Improved Journal Metal.'

## SQUARZA'S PUNCH,

FIRST PREMIUM
t the sacramento agricultural state fair FOR 1862.
ALSO; FIRST PREMIUM
At the San Franeisco Bay District Agricultural wifr, 1882
blanofactort, wholesale afd retall,
No. 44 Leidsdorit street,
Opposite the What Cheer House, San Francisco.

## LATEST IMPROVEMENT

in Ladies' Buckles.
$\mathbf{M}^{\text {R. Reichiel Respctrulit ansounces to trie }}$
 aealers in Jewelry, that he has mate mportat mprove
ments in BUCKLLS, which surpass muy and all horet
ore made. Therr sitnpicity, commodious ore made. Thesr sitmpicity, commudiousioss, and
beauty reader them the inust userul us well as ornamen-
tal triukors.
Orders trom the country respectfully solicited For
orders trom tho country respecifully solicited, Fo
particulars call at or addrens, FREDERIK REICEEL, Maunfacturiug Jeweler,
620 Merchunt street, Sau Francleco.

GREATREDUCTION IN PRICES.

STANEORD BROTHERS, 121, 123 and 125 California street, Feep the Larigest Stuck of all Kinds of

Iamp Stock
And will soll Chenper whan any other
Houso in this state Lamps, Chimeye,

Wicks, Campuikne, Burnina Fluid,

Alconol, Coatı Oit
Turpentine, Kerobene Oile,
COMET ILLUMIIAIING OIL,
Sperm Oil, Lard Oil,
Machinery Oil,
Rape Seed Oil,
Caina Nut Oif,
Polar Oin,
Linseed Oif, Raw and Boiled,
Shark's Orle,
Neat's Foot Oil,
Tannmars Oile Etg.
Our customers in particular, int the country trade gonerally, wro requested to ascertailu our prices before pur chasug from traveling agents, as we will soll at less
rutes than they cun afford to.

## 50 lbs. MIARINE AND

Fire-Proof Paint,
$\mathbf{M}^{\text {anufactured by rae pachic neranlurgical }}$
 tharge avu six other Miucrals. When used on thu Decks Butoms of ships, it is equal to a coat of stone, aud cheaper than any other paint.

## DIRECTIONS :

For Decks of Ships, inse two parts Mineral Paint, one part White Ledd, mixwith Linseent Oil.
For Buttoins of Vessels, une one part ground sulphur For Bottoms oiversels, use one part coal Tar and apply it hot. For salo by allship Clinnders and Tradesmen, in boxes For sas oy and or by the Paciife Metallurgical Works.
as POUNDS FIRE-PROOF PAINT.
When used on Roofs, Buildinga, or Fences, it fs equal to coveriag them with a coat of Stone, beivg perfectly iro Proof, aud cuastiug less than any paint.

## DIRECTIONS:

HOUSE :-Mix three parts Miueral Point with one par white lead, thin with lillsised oil : if a lighter color to Rour mix less patiut, mure lend. Paint, one part white Lead; mix with Linseed oil. Put it thick on a tin Roo as oue cout when properly appliedwill lust tarec yeara. G. T. Fouque, Superinteudent.
wURKS, North Beach; Office, 318 Callformis st., Smin Francisco.

## WRIGHT'S PICKS.

TOHN WRIG日T, of Sacramento, has establisned humself in sau Francisco for the maunfacture of every deseription of 1 ICKs, uf the best material, at reduced prices. Hick byes of the best iron furnixhed in uny quan tity, at low rates Orders from the country promptly attended to. N, B.-None genuine unless stamped with Iny aame. JOHN WRIGHT, 511 Market street,

Opposite Battery, Sua Francisco.

## REMOVAL.

Office of the pacific metal
 how chatied co reduce from 10 to 16 tons on silver or coud rock pur'day.
cold mal silver ore, and Sulphuret Assayers', or sil

corrthe ubbio-highest markel rales advaucod in


No. 44 Leidesdorff st, near Sacramento.

## SPECLAL NOTICES.

Schmeltzer Gold and Silver Mining Compauy.-At a meeting wis the Board of Trustees of this Company, held Aprll 11 . IS63, an asesesment of as cents per share was levien, payable in United States
coin, to the Secretary, at the office of the cnippany, No. coin, to the Secretary, at the office of the cnmpady, No
600 Montgomery street, ou or before FRIDAY, April II $\underset{\substack{\text { IS63 } \\ a_{1} 20.5 \mathrm{Jm}}}{ }$
M. G. ETMORE, Secretary.

## To Mine Owners.

Parties havi
Yachinery to work it for an interest in the Mine Will do well to apply at this office. No organized com-
pany need apply. pany need apply.


Oregon street. between Washington and Thris and Fro Manafaetarers of Fire Proor Doors and nges. All orders from the interino Orecon. Wanhingion
Territory. Fancouver'e Toladid. British culumua, or any place no the Pacific coast, attended to with promptness
and dispatch. Mr. Sims appreciates the pust liberal pat ronage of his friends, and trusts that be may contirue to merit it in the futhre. For the information of stran
gers he would say that he feels confideut that his expegers he would say that he fecls confideut that his expe-
rience in bis particular calliug is surrassed by none on this coast, which has suferior work, setut to almont ere ry town in this state, Oregon, alko tictoria and the sandiogs in San Francisco. fully attast. A large assortment
of second hand shutters for sale at low rates. apı3

## WANTED,

GOLD QUARTZ SUITABLEFOR CUTTING JEWELRY,
BY FRONTER A. DETIERCY, I3 ap 487 Pine streot, San Francisco.
New Patent Agency.

W男 Publication of the "Hivang And Sicestmic Press'

## The Patent Agency Business,

And wonld inrite Inventors and Discorerers on the Paupon us, Tre have an Experieoced Agent at Tashing ton, which, together with our own experience of serera

## Mining and Scientific Press Agency

The most deairable place to make application for Letters Patent on the Pacifie coast. Apply at
Offee of the ". Yining aǹd Scientific Press," Rnom ington steelet, (directly opposite the Post ofsce.) Lan
Eraciseo.
EWER \& SMith.

FOREIGN PATENTS OBTAINED
By application at this office, Room 27, Federal Building. ETIER \& SUITE, Solieitors.

NOTICE TO INVENTORS.
Inventors wisbing to file Careats rbnuld apply at this Offee, Room So. 27, Federal Buildiag. Terma moder
ate.
EWER \& SMIIH.

Patent Rights.
Patent Rights Bought and Sold, At the office of the "Minning and Scierfific Pres"* Agency
EnFR \& SMTH.

TMPORTANT TO INTENTORS. Insentors who obtain their Patents through thit Office can bave their inrentions illustrated and described it
the olumes of thio paper Fazs of charge. they merely furnishing the eDgrarings. Tre are alan prepared to fur-
nish eugraringe at reaconable rates. Thnse whin do not nish eugraringe at reacorable rates. Thnse whin do not
care to go to the expeuze of baring engravings prepared can hage thear in expeutions fully noticed and described in
our columus, free of cha-ge. The free nse of our columbe to aid them io ititroducing ther invent tinas of the
public wall be found a most imporant adrantage to in.

## The Paciflc Patent Agency

$\mathrm{H}^{4}$ AS BEEN REMOTED to No. 625 Merchant street, Whe Loemt, Ese, Atlorney at Law.
P. M. STEAMSHIP COMPANY. NOTICE.
Until rurther notice, the Steamers of duppatched ou the
$3 \mathrm{~d}, 13$ th and 23 d of each month.
Then any of the avove dat s fail on sunday, the steam A. B. FORBES, Agent.

FLLTON FOUNDRY \& IRON TORKS
HINCKIEY \& CO.,
Mavtramterib of
Steam Engines, Qcartz, Flotr and San Minls; Cast Iron Fronts, for Butldings, Mintig Pemps,
and all kinds of Machinery, Etc., FIRST STREET,
Betweex Market axd Misyon.............eas Fenyescoo.
** All kided of Iron and Brase Castices furoiched at short motice. Erery style of Finssivg to Irou when
anst. Reparing of Jaachiucry neatly dene.
 D. B. Hackity. Wn. E. Wokty. Wy. A. Fiblo.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel
THE SXMPLE, COMPACT, STRONGAND
effective manner in whicb it is 2ppled to any height of fall, (3 feet to 300.) and to any sind of machinery, wil
Save in Trannportation Material and I.abor, from 25 to 50 per cedt. of the entire cost of the Structure to which it is applied, and propor-
tionally increase its ralue.

For foll information from the Inventor, apply at the Miners' Foundry, from 10 to 11 A. $\mathbf{X}$., or address
J. M. BETH.

Miners' Foundry, San Francisco.
This Theel fo fully grazantazd. Janig-ts

## Agency For Patents.

T
HE OMEREGGNED having been long establiehed in the Patent dgececy Busieess, add baving favorable
 Tor the securing of Careats and Patents also, will at
ten to the sales of Patent Rights, and to all matters connected witb patented inron tions.
WETHERED \& TIFFANY, Office, 410 Montgomery street. CGARLES R. BOND, (Inte City and Connty Assessor REALESTATEAGENT, No. 410 Montgomery street, San Francisco

Real Eetate Porchased and sold, and Loans Nego
ciated. ciated.

## WHEELER'S

Amalgamating and Separating Pans.

It is acknowledged by all who hare examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalga mating purposes to any other in ure.
The mnst important principle connected with the ope-
ration of these Pans is the separation of the trituratius process from th: $t$ of extracting the amaigam from th sand. The chief canse of lass of the precions metals ar
sef from the paesing off of the same in combination wit cleaning up. By the introduction of trituration, and in
of f. 11 arating Pan of llow the trituration this loss is entirely aroided. I quickeilrer, and bence none of the precious metals.
Where these Pans have been introduced and operate
by the side ofnthers on sauds from the same rat, th of metals orer its competitors, $a s$ well as a still large of metals over it- compentinrs, as well as a still larger
percentage in the amount of work performed.
** These Pans man be seen io daily operation, at the Miner's Foundry, on First street in this city, where al interested are invited to call and examine for themselves,
nolg-tf
ZIENAS WHEFLERR

## PEOPLE'S

Steamship Line! CONNECTING
CALIFORNIA AND NEW YORK, via nicaragea. 750 Miles Shot ter trann any other Route: The Fast and Favorite Double Engine Steamship,
MOSES TAYLOR, J. H. Blethex............... Comyander,

## San Juan del Sur, <br> From Mission street Wharf,

 Punctually at $90^{\prime}$ clock, A. M., onWEDNESDAY, - - APRIL $2 \$, 1863$. Counecting at GREYTOWN with the Spleudid Stet mahip

## ILLINORS

Reduced rates of Passage and quick trips are secured
by the re opening of the Nicaragua Ruute.
These Steamers are unsurpissed for sperd, cleanliness anil aifety, anu every effort will be made to iusure the For further informa

No. 407 Washiugtun Street, opp. Post Omp

## P. M. S. CO.

PACIFICMALSTKAMSHP COMPANY'; raad with the steamers of the Atlautic and Yacific
Steamship Compagy at Aspinwall. FOR PANAMA.
The following Steamships will be dispatched in the April 13th, - - - Steamer Golden Age. April skd, - $\mathrm{i}^{-}$- - Steamer Sonora Will leare Folsom Street Wharf, with Passengers and Treasure, for H'apama

AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY,
and connect. ria Panama Rallroad, at Aspinwall, with teamships for New York
For Freight or passage, apply to

## A. B. FORBES, Agent.

Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Eolsom, SAS FRANCEECO.
 H. Dery the Rept and 3ust Economiral. minulactured In the state of California, will be furuished with dis
patch at the Mivers' Foundry and Machine Works, as:

Steam Eugines and Boilers, Flower, Saw and Quart mill machinery, Mining Pumps, Amalgama tort, Retorts
Etc.,
Eic.,

Particular attention will be given to the manufactur of Machinery in Sections, designed for places of diffeul access, Tarious mudels of Quartz Crushers, Amalgama-
fors and Water Wheelo-some in operation and on exhi
${ }_{*}=$ Parties desiring to test their ores practically, in maill quantities will be afforded ample facilities, free

All parties desiring accurate and higbly finished draw inge and Superior Machinery, at mose reasonable rate
are cordialiy iurited to call before contracting elsewhere ROWL.AND, ANGEL, \& KING.
San Francisco, February 23, 1863.

## DONAHUE'S

 Union Iron and Brass Foundry, Cormize of First and Mission Strezte, San Francisco. The First Eatablished in the State. MANUFACTURE STEAMENGINES, II SAW AND GRIST Mill Machibery, Bulers Quartz stampers, Amalgamators, efc., cta, at reduteprices. Euve now the largest and lest asortment o
Gear and Mlachiuery Patterus in the State, which will be forwardea to bnyone desiring it, free cost.


PALMER, HANSCOM \& CO. GOLDEN STATE TRON WORKS, No. 19, First Street, San Francisco, Furnish Castings and Machinery of all kind ALSO:
Gentine Weite Iron Shoes and Dife. PALMER, HANSCOMB \& CO
To Quartz Miners.
E.nox's Improved

AMALGAMATING PAN , WTTH
PALMER'S PATEN'C STEAM CHEST THE ABOTE COMBINATION SECERES THE MO ay proces now bnown.
isy it stea mo is introdued in the most effective and nonical mat ner, while it is pecularly adapted to th
catching. Aloating gold and silver, known to bo nthe wise IU 5 H Hade exclukirely by,
PALMER, HANSCOM \& CO., Nog, 19 \& GOLDEs State Iroy Works,

The public are informed that Letters Patent have the granted the undersigned upnis Stram Chest False Bo re cuutioned against making, buyiog, nsing or selin the sarae witbout his consent

VULCAN IRON WORKS CO. P. TORQUET..............MANAGER R. IVERS. C. R. STEIGER. S. ATTKEN.

## Steam Engine Builders,

Boller Makers, Iron Founders and Gen Nos. 137 \& 139 Ftrest Strmat, $^{2}$.-. - Sas Frascisoc
Steambaat Mactarekr built and repaired; alen Saw Flour and Quartz Mills, Pumping and Mining Machis

Proprictors of Morse's Patent Fire Grates, Jofral, Fourneyton and other Turbine Water Wheelt with latent improrementr,

## DEETKEN'S

Chemical and Metallurgical Works
On San Bruno Road, Islais Creek,
san fbanclicol.
GOLD BEARING SULP日CRETS WORKED AT REAE onable patis. All tire Golo Extractas 50 jer cen higher than the BEST ABlaLGABATION PROCLFS. Ap- Apharaus for separuling Sulphurets get up liy mill owners.
he jurpose.

LEWIS COFEEY AND RISDON, STEAM BOILER AND SHEET IROI

The only exclusively Euiler Making Eskablishruent o the Pacific Cuast Owaed and conducted by Practirs of Uld Work, executed as ordered, and warranted a to quality.
Old Stand, corner Bush and Market Streets LEWIS COFFEY
J. N. RiSDUN.

JAMES PHELAN
(Late J. \& M. Peelan,.)
MMPORTER AND JOBBER,
Wines; Liquors, Etc, Etca
Nos. 616 d 618 Front street,
Between Jacks.
Established 1849.
All Goods Guaranteed. Orders Solicited teris liberal.

ГHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
M ACHINES, MATHEMATIC AL, Optical and Pbilosopl Ve ical Instruments, Scales, Weighte, etc.; ste ps, Dies aud ochinery prompty attended to.


VOI.. VI. SAN FRANCISCO, MONDAY EVENING, APRIL, 27. 1863. NO. 26.

## TO CITX SUBSCRIBERS

The experience of the past four or five monthe has proved the impossibility of a regular and prompt delivery of the Minina Press to city subscribers by any carrier, who has no other interest in his businers, than to simply get through his routes, and draw his weekly pay. So much complaint has been made, that we have concluded to adopt the universal custom in this city, of placing our routes in the hands of a carrier, whose interest in it shall be to increase instead of curtail them, and who, for such reason, will be very likely to attend faithfully and punctually to his duty. We have made this arrangement with a party upon whom both ourselves and our subscribers can rely. Many of our subscribers have already expressed the desire that we should adopt, in their cases, the usual custom of calling upon them monthIf for their subscriptions, and as it is desirous that the arrangement should be uniform, our carrier will call upon all others during the week, and such as are willing to become monthly subscribers can do so and settle with the carrier, for all arrearages. Our large and rapidly increasing city list renders it necessary that we should employ a man to devote his entire attention to it. We trust the arrangement will meet the approbation of our patrons.

Siliman's Journal.-We have received the March namber of the American Journal of Science and Arts, edited by B. Silliman, B. Silliman, Jr. and James D. Dana. This publication has now reached the 45th year of its existence, and is a standard work on all matters pertaining to science and arts-the only Journal of the kind on the Continent. It is made up of original papers and abstracts of foreign dis. coveries in physical and chemical science, geology, mineral agy, metallurgy, natural history, etc. It is a matter of congratulation among men of science, everywhere, that this standard publication has been able to stand the pressure of this extraordinary epocb, and continue its regular appearance even alter it had been curtailed in circulation by the loss of a very large portion of its patrons who were dwellers of the Southern States. The number before us containe a valuable collection of papers, ombracing within their range nearly every department of science and arts. This work is published every other month, by Silliman \& Dana, at New Haven, Conn., for $\$ 5,00$ per year-each number containing 152 pages.

Remotals.-The office of the Lady Bryan G. \& S. Co. has bpen removed to 605 Sacramento Street.
M. G. Elmore, Mining Stock Broker, has removed his Office to No. 528 Montgomery St.

Tare "Supplement" to the News Letter, forgets to credit the Press with the article entitled "Amalgamating Gold and Silver by Electricity," which it copies.

Black Ink.-We have received a sample of "Pilkington's Black Ink," a very superior article and said to withstand the action of aeids. It can be purchased at the corner of Montgomery and California Sts.

## PROGRESS OF THE MINING INTEREST.

We continne our notices of mining progress in -various sections of the State und adjoining territories. It is only by consulting such facts as we here lay before our readers that persons can act with judgement in their investments in progressive mining stocks. In a dividend paying mine, all that a purchaser cares especiully for knowing is that the company is paying a regular percentage upon its capital stock. He then invests at a price per foot or share upon which the usual dividend will afford him a percentage which he considers an equivalent for the use of his money. He is a poor business man, who seeks nn investment in an unproductive mine, without first informing himself as to its condition and the progress which has been made in its development. We shall hereafter devote a large space in our columns, and whatever time may be necessary, to collect all attainable information which may properly come under this head. We intend to make such information as reliable as possible, and our readers by filing their papers will soon have in their possession every material fact connected with the progress and development of every mining company which has an office in this city, and so far and fast as we can obtain reliable data, we shall also report progress upon all other companies, wherever on the Pacific Coast they may be located, or wherever their official place of business may be. In obtaining this information, we shall, of course, as a general thing, be compelled to take for our authority the statements of others, and whenever any misstatement or omission may be noticed we shall esteem it a favor in any one who will call our atteution to it, and furnish us with the correct facts in the case.
virginta mines.
Burning Moscow.--This company is now employing about 20 men. They have a steam engine upon the ground for hoisting purposes, and the management of the mine has recently been placed in charge of a new Superintendent, Mr. Philip Deidesheimer, formerly Mining Engineer of the Ophir Co's mine. The mine is worked by an incline upon the vein, which yields good ore at a depth of about. 70 feet The prospects of the mine are such as to warrant a vigor ous prosecution of the work. Drifts are now being run for a thorough development of the mine.
White \& Murpay.-This Company has recently made arrangements for an immediate opening of the mine through the Latrobe tunnel.
Desert.-This Company, situated in the Flowery district near Virginia City, is not far from, and is supposed by nany to be an extension of the Lady Bryan. But little has been done toward its development until recently. The Company has now however taken the necessary steps for its development by running a tunnel, sinking a shaft, etc.
Lady Brynn.--Considerable attention has of late been directed to this mine in consequence, probably, of the appearance o some very rich ore in a new shaft which was being sunk upon the vein. The present condition of this mine is very clearly given in the following extract from the report of

Mr. Charles Bonner, Mining Engineer, to Mr. Teschemacher, President of the Company:-
"The general geological formation of the District is precisely similar to that of the Comstock vein. The outcrop of the vein is an immense mass of quartz, from 100 to 150 feet wide, of a good character, running in a northerly and southerly direction. The tumel has been driven through the vein at right angles to its course, and passes through a similar thickness of quartz to that at the out-crop. But the quality of the rock indicates that it will have to be followed to a greater depth before good results can be expected.
The shaft now being sunk where some rich ore was cut recently, is in the Western Lode, intersected by seams and bunches of quartz, some of which contain very rich ore. The quality of the ore discovered in the shaft is excellent, but limited in quantity-a proof of the existence of rich ore in the vein at increased de pths. The shaft now sunk is not at the place where the vein can be worked to advantage, and recommends a new shaft to be sunk in a westerly di. rection, to a depth of 1000 to 150 feet, at a point indicated by him to Mr. Owens, the Superintendent, and that an Engine, Pumps, and Working Gear, for hoisting rock, be im- 1 mediately provided-an expense undoubtedly warrauted from the present appearance of the vein."

## esmeralda mines.

Rip Van Winrle.-This Company is sinking a prospecting shaft, which, by last reports was down 35 feet. As soon as the ledge is reached prospecting operations will be commenced.
Bodie Bluff Consolidation.-This Company are actively engaged in developing their several ledges. By last reports their shaft on the new Mexican ledge had reached a depth of 125 feet-on the Isabella they were down 90 feet; a shaft had also been commenced on the Osceola. We shall speak more fully of this in our next issue.

The Bodie and Silvar Hill Consolidation Co. has been organized by a, consolidation of the Rising Sun, Grotto, El Dorado, and Climax Lodes. The Company has commenced operations on the several lodes, by tunnels and shafts.
The Jack Hays, Sam Patce, San Francisco and Tennessee Companies, are all recent Organizations in Esmeralda having their offices of business in this city. Active operations have been commenced upon each, by sinking shafts of suitable depths for an approximate development of them. We shall soon be able to report progress.

Willow Springs Extension, Middle Eill, are working their claim night and day and taking out ore said to be very rich.
Coso S.M. Co. This Company, whose lodes are located in Ooso District, have their mill about completed, also the road to their mine. In a short time the rock from their various ledges will be tested by a practioal working process.
slate range.

The Cafuga, Blue Ridge, Madison and San Francisco, all in the new Slate Range District, are in progress of de-

## VAT.UABLE ALLOYS.

Stuver Steel.-One part silver, 500 parts steel, necording to Farraday and Stodau. This alluy would be superior to the best steel. Steel also combines with other metals, such as nickel, platinum, magauese, \&e.

Copper and Antimony.--Seventy-five farts copper, and 25 parts autimony. This alloy is brittle lamellated, of a vivle: color, susceptible of a fine polish, and is more fusible than copper.
Bisyuth and Lead.-One part of bismuth, and 1 part of lead, a very tenacious alloy, melting at $165^{\circ}$ Centigrade equivaleat to $370^{\circ}$ Farenheit.
Two parts of lead to 1 part of bismuth gives an alloy which dilates powerfully at the time of cooling. (This pruperty makes it extremely suitable to all custings in which the greatest sharpness and finish are desirable.)

Brilliants of Fahlun.-Thus called, are made from 29 parts of tin, and 19 parts of lead. A very fusible and briliiaut alloy.

Tix and Zixc.-One part tin, and one part zinc, is almost as tenacious as brass, and molts at $460^{\circ}$ to $500^{\circ}$ Centigrade, $900^{\circ}$ Fahrenheit.

I'm and Iron.-These tro me'a's may be allosed in all proportions. 35 parts of tin to $5 \overline{5}$ parts of iros furm an alloy of a clear crystalline gray, and so brittle that it may be reducel to an impaprable powder.

Asti-Friction Metals.-Many use 9 and 10 parts tin to 1 part copper. A superior composition to either of the above is, 1 part copper, 1 part regulus of antimony, to 10 parts of tin. Melt the copper first, then add the antimony, with a small yortion of tin ; corer up the whole with charcoal for a short time prior to casting; add the remainder of the tin. The compositions are solely used for lining brass bearings.
Five Brazing Soldrr.-Twelse pounds of copper, 11 p unds of zinc flux with powdered brimstone.
A Neiv Guy Metal-James T. Ames, of Chicopee Mass., has received a contract to furnish two guns to the Navy Department, which shall be made of a composition of metal of his own invention. It has borne an explosive force of 80,000 pounds to the square inch.

Indian Steel.-The steel made in India is of such good quality that not only are Indian swords made froma $i t$, but the best of Persian swords likerrise; and it is believed that the vast monuments of ancient Egypt must have been cut with tools made of Indian steel, in respect to the hieroglyphics on the intensely hard porphry and syenite.

This Indian steel appears to be made from the magnetic oxide of iron. The ore is stamped to fragments, and the adherent quartz is separated by washing and sifting. The smelting is effected in the most primitive way; the furnace is built of clay, and not more than four or five feet high, the bellows is formed of two goatskins, with a bamboo nozzle, tipped with a clay tube at the end which is to be nearest the fire; the fuel is charcoal. The iron produced by the appliances is such as our manufacturers of steel would treat with little favor. but the Hindoo manages to obtain most excellent steel from it. The iron is heated to a slow red heat, and is beaten for a long tume with a stone hammer on a stone onvil, the Hindoos having an opinion that iron implements are injurious. To convert this hammereả inon into steel, it is broken into small pieces, and put into small crucibles with a little dry wood; the crucibles are stopped up with clay, and are putinto a furnace where they are entirely covered with charcoal. Ablast is then applied for two or three hours, the crucibles are removed, allowed to cool, broken and the metal is in a proper state to be fabricated into any desired form.

Whitewasf-This article as ordinarily made, rubs off the walls after it becomes dry, soiling clothes and everything coming in contact with ic. This mag be obriat d by slacking the lime in builiug water, stirring it meanwhile and applying after dissulving in water, white vitrol, (sulphate of ziuc.) in proportion of tour pounds to a barrel of whitewash, making it of the consistency of thick milk. The sulphate of zine will cause the whitewash to harden, and prevent the lime from rubbing off. A pound of white salt should also be put into it.

## NATURAL HISTORX.

A most importaut enterpris-important in a scientific ight-has heen recently undertaken by the friends of science in Nebraskit. A company has beeu formed under the name of Tue Rocky Mocythin Natural History Expedimon, to explore the Rncky Noutain region. Its originators are citizens of Nebraska, residiug on the border of civilization, and almost adjacent to the proposed field of exploration and research.
It is the determination of the expedition to wake complete colleciions of plants, dried and alive; seeds, cuttings and grasses; of birds of their skius and eggs; of shells and fossils ; of skins of large animals, their bones and skulls; insects, fishes, minerals, etc. The expedition possesses all the necessaries for collecting, curing, packing and transportation.
A Botanist, Naturalist, Geologist, and Taxidermist, will accompany the expedition, and make full and complete collections in their respective branches. There will be established in Nebraska City, a depot, where cullections will be forwarded, as soon as sufficient quantitics are collected for transportation. It is expected that the expedition will occupy thre jears, or until a thorughl reserach is made of the Territory namel. Sulseribers, aud those identifind with the expedition. will receive their specimens annuaily, from the depot at Nebraska City. The expense atteuding an outfit so complete as this will be, makes it necessary that they receive aid from subscribers. Those who remit $\$ 10$ whll receive a certificate of Membership and a collection. A Corresponding Secretary las been secured for the States, who will adrise the subscribers of the success of the expedition from time to time. The expedition is expected to start for the mountains about the first of June. 1863.

Remittances should be made in T'rensury Notes, by mail to R. O. Thompson, Secretary and Treasurer, Syracuse, Otoe County, Nebraska 'lerritory.

That there is a field of deep interest to the Botonist, Naturalist and Geologist, in the Rocky Mountain regions of North America, has been already demoustrated by the collection of rare Plants, Birds, Insects and Fossils, that have already found their way to civilization from that quarter.
The Natural History of the Rocky Mountains within the Territories of Utah, Colorado, and New Mexico, is yet but partially developed, and it is to be hoped that this expedition to fully explore that region will be eminently successful in placing its Natural History before the people of the United States, in so complete a record that Science will receive a lasting benefit therefrom.
Tire Harmis Lead at Bromn's Talley, about 10 miles east of Marysville, has been in active operation since Aug. last. The mill has all the modern improvements in machinery, and is paying at the rate of from $\$ 4,000$ to $\$ 6,000$ per month, above expenses. The entire property, we understand is owned by H. Harris, of Marysville. Quite a town has sprung up about the works and a neat church is soon to be erected, all through the enterprise and liberality, directly or indiractly, of Mr. Haris.

Pretertion of Dasip in Grousd Floors.-Until rec ently no provision was made to guard against the absorption of moisture in the foundation walls of a house; latte:ly, every working bricklayer knows that by the use of a single layer of slate (fixed in cement,) ever so little above the ground range of a foundation, the rise of damp in walls is repressed. What a catalogne of erils is avoided by this simple provision! The servants of an establishment are saved from all the penalties which damp walls are sure to entail upon the occupant of a basement story; all the aches to which the human constitution is subject are at once obviated; and apartments which, built on the, surface, were formerly damp some two or three feet upward, or if sunken only four feet below the level, were damp to the celling, are now perfectly dry and fit for sleeping-rooms.

A New Method of Exterminating Rats - A person being much troubled with rats, and being determined to get rid of them, tried evers possible plan but without success. A last he gut a lot of rats, and shut them in a cage; they deroured one another till ouly a single one was left. He then turned this one loose, who, excited with the blood of his fellow rats, and having become a genuine cannibal, killed and ate all the wild rats he could find on the premises.

## SUCCESSFULLY AT WORK.

The Lnudon "Pneumatic Dispatch Company" has commenced lorwarding mail-bags through its underground tubes. this euterprise is norel. 'The Pueumatic tubes which have been laid by the company extended from the Elaston Railway station to the Northeru District post office in Eversholt street, London, a distance of only about one third of a mile, but sufficient fur experimental purposes. The tube resembles an eliptical gas-main, thirty-three inches ligh by thirty inches wide, and is laid in oine feet lengths, at an average depth of aine feet below the street level. The joints are filled in with lead so as to be perfectly air-tight. Withiu this tube runs a wrought iron car, eight feet loug, weighing eightewt., and fitted with four wheels, each twenty iuches in diameter. At each end of the tube is a hollow iron wheel, working in an air tight box of twenty one feet in diameter, which is connected with a steam-engine of seventeen horse power. The wheel turns at a velocity of seventy or ninety miles an hour, when the air is drawn in thro' its hollow ceutre and thrown off from its_periphery with a force that gives a pressure of from five two seven ounces on the square incl. The iron cars io the tube present a surface of nearly five square feet to the blast, and are propelled at the rate of thirty miles an hour.
The entire cost of a line of five miles is estimated at $\$ 650,000$, and it is proposed to carry freight as well as mails through Loudon, at the cheap rate of a penny (two cents) a ton per mile. So far, the experiment is successful, and the results are very interesting and curious.

Red Ink.-Common red ink is made in the most simple manuer, by nixing common carmine with a suflicient quautity of aque ammouia to flow freely from the pen. Any person can maaufacture redink in a few hours by this meth od. A cheaper red ink may be made by boiling two ounces of Brazil wood for half an lour in a quart of water, then straining it and adding hale a drachm of the chloride of tin and one drachm of gunarabic. Such ink is used for ruling red lines on blank-books. Carmine ink does not affect steel pens like that made from Brazil wood; none but quill or gold pens, howerer, should ever be employell with red ink. Liquid Solferino (aniline red) also makes a good red ink.

Poor Prophets.-It is remarkable how many predictions of men of science, in regard to the practical utility of important discoveries, have signally failed of fulfilment. When Sir Walter Scott heard that it, was proposed to light streets with coal-gas, be said: "It can't be done; it's ouly the dream of a fanatic." Sir Humphrey Davg, the eminent chemist, said, in regard to the same thing: "It's all nonsense. You might ds well talk of lighting London with a slice of the moon, as to taik of lighting London with gas." When the subject of ocean steam navigation was first pro posed, Dr. Larlner demonstrated, as he supposed, by elaborate calculations. that the matter was practicully impossible. When Franklin announced the identity of lightning and electicity he was laughed at. When Morse proposed to send a telegraphic message between Washington and Baltimore, he was regarded as a fit subject for the lunatic asylum.

Here is a queer statement-but if true, a very important act for houselseepers :-
To Preserve Eggs.-Place half a dozen at a time into boiling water, or as many as you can lift out at once with a skimmer, and leave them in the water from five to six seeonds, and they will keep fresh for any length of time. This process coagulates a thin film of the white next the shell, and renders it impervious to the air, Whi ch is the cause of
the putrefactive stage,-the shell being porous, and by lay. ing a short time in one position, the jolk displaces the white and comes in contact with it and spoils.
Corporations in Mono Countr.--The Aurora Time: says; The number of Incorporations in that County, inclusive to the 1st inst., for Gold and Silver mining and othen purposes, numbered two hundred and forty-nine. Sines then other companies have been organized. The presen number is 267 .
Copper.-The excitement over new copper discoverie: still continues in every portion of the State.

LATEST FROM ESMERALDA.
We receive by private advices from Esmeralla most encouraking word with ryard to the mune in that Histrict The mines are very genarally improving as the workingo descend. Our correspondont writes" ds we gen down the poen mines are the exceptions," and adds. "The Wile We Mitl runs like a top-yon need not fear to speak well of this District, as to the mimes.

Smpassr of 'Imenscres:-The folluwity is the list of treasure shipped for the East per steamer Sunura of the 23 inst.:-

| To New York | \$302,046 38 |
| :---: | :---: |
| To Engand. | 765.07257 |
| ''o P'anama. | 27,600 00 |

As Oil Spasa has recoutly heen decorered in Colusa connty, on the foust lange, and a compray bats been formed in Marysville to thormally prospect and work the sume if it-hall prove as extansive assaticipatel. The spring is sitnated ahout a mile from simmon's IVut sulphar siprings.

## TO MINERS AND PROSPECTORS.

In view of the frequent acciclental discoreries of valuable mineral deposits, other than gold, in almost every section of the state, which have of late heen made, it is but reasonable to suppose that prospecting even in California, has but just commencel. The simplest and most universal of all metaliferuna deposits is gold. It. rarely uccurs in any other form than that of "free grold" whiel is readily discernable to the naked eye. An examination of any rock or earth for gold is an extremely simple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a pan is an invariable test. If in rock of any deseription thal rock pounded fine in a mortar and washed, in the same manner as alluvium, will usuilly expose its gold to the naked eye, if there is any there in paying quantity. The only exceptions, are where the gold is contained in iron pyrites, or copper pyrites containing also iron. In either of the two latter cases the presence of gold may be readily ascertained by placing the pyrites in any suitable vessel and keeping the contents at a moderate heat for from four to six hours, with freriaent stirrings, by which means the sulphur will be evaporated, and the copper, if any is present, changod to a dull red colir, and the gold retaining its natural appearance, on subjecting the whole to the usual panning process, may be readily seen by the noked cye.

Nut so with other metals. Silver, copper, zine, nickel, and many others appear in sucla a great variety of metalliferous forms as generally to defy all but the most practical and scientific epe. No description of these ores can be written which will afford any very important aid to the inexperienced in making explorations. Alter reading descriptions, however, and carefully examining the specimens described, the explorer may go out and search with fome de gree of confidence and intelligence $\mathbf{A}$ study of the characteristics of the sulphuret ores alone, would lead an explorer to pass over, entirely unnoticed, the nchest varieties of the ores known as Chlorides or Hurn Silver, which, from the facility with which they may be worked, and their usual richuess, are generally considered the most valuable of silver ores. There is much reason to believe that this variety of silver ore will be extensively found in all the volcanic regions of this State. So with many other ores.

Considering the great difficulty, in the present lack of cabinet collections, and other means of instruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resources, we hereby make the offer to miners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefu'ly examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be presented to us.
Onr olyect is to furnish the mimers of California witle every class of information which shall be valuable to them in
the premeres of their mating and in the developent of the minemal resumers if the state, aml we know of no way in which wee canderote a prertion of our thene more to the internsts of miners that in the manns here prepused? The only erguisalent we ask is that they shati do what they re:aamably ean to sustath and improve the faper devoted exluaively to thair interests.
In carryine ont the plat we propose, every miner and prospectur slould he at all tumes on the loukut fon any new mineval. The ordinary rocks witir which the miner meets in his travels and labor, and which pussess no mineral value are usually well known. Whenever a rock presents any unusuul appearance in conformation, color or other characteristic, uttention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzozo nature, which presents any uucommon appearance in texture or color that has not been thus modified by the deposit or intrusion of sonte mineral substance. If such rock is found upon or near a vein of quart\% it slarould be curefully examined "in phace." and if the canso of its peenlarity is not evident and readily seen, it shonh not be passed carclessly by. There may be valus in it, althongh the guld may not shine there. We shall commence in our next issue a so ries of articles deseribing as accurately and as intelligilly as possible all the ordinary mineral substances which may be likely to come under the notice of the California prospector; and we have the promise also, at an early day-probably within a week or tryo-of' a series of articles under the head of "Thae Minek's Labobatory," which will be preparel especially for this paper by one of the most skillful me'allurgists on this const, and which will be found of great value to the mining public.

## SAN FRANCISCO MINING NOTICES.

Assessments upon Mining Stocks have been levied as folows :-
Garabaldi.-Assessment of \$1 per share, levied March 2nd.
Sutro.-Assessment of $\$ 1$ per share, levied Feb. 23, payable March 23.
Silver Quartz Mill Co.-Assessment of 5 per cent. levied Feb. 23, payable March 28.
Napoleon (copper.)-Assessments of $\$ 3$ per share levied Mar. 3, payable in 30 days.
Golden Age-- Assessment of one dollar per share levied Feb. 24, payable March 26.
Washoe Gold \& Silver.-Anassessment of 2 per cent on capital stock was levied Feb. 16, payable Apr. 1.

## gener

Coso Silver Mining Co.-The Office of this Company bas been removed from the Stevensou House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. In you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, yon can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understaud that it is sent to them for examination, and with the hope tbat it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we are anxions to introduce the paper where it is not now known, we will, for the present, send the Press for three months eveu, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant read-
ithining and \&rientific y|rcss.


## To Printers.

An Istrasst in one of the mont llourishatug and best mying Newfin fer onlees in the mometain ix olfered fur sate on casy arms. A rary of
 self in a grat bismess in one of the healthiest, most thriving and dehghtful mountain towas in the entato. For further information eryuire ne this nlice.

## MINING AND SCIENTIFIO PRESS.

THE ONLY MINLXG, MECHANICL AND SCIENTIFIC PAPEIR GN TMISCONTINENT.

## THited rear: volune vi.-new serifs

A new volume of this extenswely circulated paper conmenced fept. In,
1862. It is intended that ceveryumber shall he replete with information 1862. It is intended that overy number shall he replete with information wifh several or iginal engruvings, of new inyentions, etc., prepared expressly for its columbs. This phiper is levoted to ther above purposen, together with tho interesta of sciunce, Arts, Agriculture and Commerce, ami any general information
that may be of interest to the rember : and is is the intuntion of the propritor tosipnere no pams or expense in maing it equal su interest and valuablo iuformatiou to ithy daper y yt published.

## The Mining Interest I

Whll find it of great value, as it will contain all the news apperiatiling to Mining, the prices and sales of Mining Storks, hew inh ellitions of Machnery to the Miuer.

## The Inventor

Will find it an excellent medum for the purpose of bringing his invention into notice, of ascertaining the progrees of invention in this and other countries, and also obecting bis patent, the propritor having had great experienco as ab l'atent Aspont, together with lagilities at Washiogton that equblo him to ob ain yatents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly bencfitted by its perual, as each number will contare seve eral orignal engrawings of new machinss and inventions, logether withy
large anozat of reading matter appertaining thereto. We are constintle large anoznt of reading matter appertaning thereto. We are constintle
recuiving the best scientige journals from anl quarters, from which wr recuil coltinue to extract whatever may be of beneft or interest to oureaders.

To Chemists, Architects, Millwrights and Farmers ! This journal will bo invalunhle. All new disenperies in Chemistry will be givelh, and a large amount of mormatimit of great serrice to Arehitects and
Nillwrights will bo found in sur columus. The Farmers and Planters will out bo weglected, engravings will be given of agrivultural mplements, and the farming interest gencrally will beamply discuased.

## Temms.

## To matl subseribers:-Four Dollars por annum

 Club Rates.Five Copies for Six Monthes, $\$ 8$.
Ten Copies for Six Months. $\$ 16$.
Ten Copies for Eis Months, \$16.
Ten Copies for Twelve Months, $\$ 30$.
Ten Copies for Twelve Months, $\$ 30$.
Fifteen Copies for Twelve Months, $\$ 44$.
Twenty Copies for Twolve Months, $\$ 50$.
For all clubs of Twenty and over, the yeariy subscription is only $\$ 280$ Names call be sent in at different times and from different Post-offic pecimen copies will be sent gratis to any part of the country.

## EWER \& SMITH, Publishers,

Room 27, (formerly) U. S. Court Building, Corner of Washingtou and Ba

## For parting silver from gold when gold

is below 300-1000tlis. fine
3cts per oz.
 T50-1000ths to $950-100 \mathrm{ths}$ " 14 cts Depostts Silver Bullion-Purciastrs.
$\$ 1.21$ per standard ounce $\frac{1}{2}$ per ct. on gross value of all gold contained fur coinage.
Refining charges (only where gold is contained) proportion of goid I to 300 3cts. per oz. gross weight

301 " 500 , 「cts,
Deposits for Fine Bars
\$1 16-4-11 ths ceuts. per standard ouvee, $1 / 2$ per ct. gress value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold Fromi Refinery.
$\$ 1$ 2lcts. per standard oz. 1 º per ct. gross value to be ad ped for making bars.

Deposited for Dollars.
\$I 1G-4-11ths, per staudard oz. 1/a per et. gross value for coining, when gold is contained, refining charge the same as in purchases.

Depositen for Imphrted Birs.
$\$ 116-4-111$ hs. cents per standard oz. 16 per et. gross valuo of deposit for making bars.
velopment by shafts, etc. The shatt on the former is down 50 feet.

Quite a number of Companies located in this region have receatly been orgauized iu San Francisco, and all are actively engaged in securing a propur development of their severmines.
The Sheba, which was one of the earliest and is perhaps the best known mine in this district, is rapidly gaining in public favor. The ore from this mine is of a nature which will not yield to any of the vaiious chenical processes now emploged in this country for the reduction of silver ores. It can only be reduced by a process of smelting. It consists chiefly of an Antimonial Sulphuret of Silver, which, until this discovery, has ever been considered a very rare mineral, and, which we believe, has hitherto been worked ouly in Lurope. The Sheba Company has 15 tons of ore now on its way to this city to be smelted here, with the view of fixing a per ton grade to which it may be assorted for the purpose of exportation for treatment in Europe. The lower tunael, which is being run by this company and which we have doscribed in previous numbers of the Press is now on the lead, and at a distance of 30 feet below the upper tunnel. The vein at this point is found equally as rich as in the upper tunnel. This new development has had the effect to cunsiderably enhance the price of stock in this market.
The Starligut has shipped tools, etc., to their mine and will immediately commence the work of its development.
I'me Estrella del Monte, tie Maneattan, the Cocerego, the Siegel and Annie Laura, late incurporatiunsia this city, are all being prospected by tunnels and shafts, and their stock will doubtless soon acquire value in the mariset.

## rese river.

Tre Reese Rrver Co.-This Company, the only location on Reese River, which has yet found its way to our mining table, is a consolidation of 16 different ludes, embraciug an aggregate of 7880 feet, divided in 1200 shares of $\$ 100$ each. The Company has taken up 640 acres of timber land, 63 of which lie directly on the River. This location is directly on the Overland Route. Wells, Fargo \& Co. have established on office in this neighborhod and a telegraph station is also about to be removed there. The Company's claims are made up as follows :-Little Giant 400 feet ; Nar tional 480 ; American Eagle 600 ; Sigel 500 ; Stanton 400 ; Fricsson 300 ; Pony Exteusiou 600 ; Lincoin 1600 ; Latham Extension 200; Overland 200; O'Neill 200; North Star 200; Oregon 200; Highland Mary 200; Black Rock 600 ; Cedar Hill 1200-T'otal number of feet 7880 . The Company is now unning a tunnel into Highland Mary, which at latest reports had progressed 190 feet. They will strike the ledge at a depth of about 400 feet. At 20 feet from the mouth of the tunnel they crossed a 15 inch lode which they think will pay well for working.

The Melones \& Stanyslaus Co., located in Calaveras County have recently struck ore of an extraordinary richness in a shaft at the depth of 35 feet. Some of this rock can be seen at the Company's Office, in Lucas \& Turner's Building. The specimens are aroong the finest which we have ever seen. The rock is of a cream color, and shows gold all through the mass. One of the specimens shows a profusion of sulphurets of silver. This mine is in process of rapid development.
The Alameda Coal Co. have their office in the same room with the Melones. This Company have eleven different veins or strata of coal included in their location. They are sinking a shaft, which has already reached a depth of 250 feet. They have some fine specimens of lignite at their office, which are indicative of a large vein, and which it is thought will improve as they go down, into a good quality of coal.
The Sneati \& Clay Gold Mine, recently opened, near Nevada City, appears to improve as the work upon the same progresses, surpassiug all expectations, and surprising even
the owners themselves. Developments, thus fir, seen to the owners themselves. Developments, thus fur, seem to
indicate that this will prove one of the richest mines in the State, and will bear favorable comparison with the best in Nevada Territory.
The Nevada Quartz Mining Co. makes the following favorable exhibit of their work for $1862 \& 3$.

|  | Tons cru-hed. | Ozs. Anal'm | $\checkmark$ alue. |
| :---: | :---: | :---: | :---: |
| 1861-2. | . .3,735 | 15,780 | \$60,333 |
| 1862-3. | . 4,785 | 17,655 | 67,305 |
|  | br califo | * SONORA. |  |

The Gobernadora S. M. Co., in San Antonio District,
Lower California, are now taking out rich ore.
The Mina Prieta Co., located in Sonora, Mexico, will have their machinery in operation about the 1st of July. The mine is now under the Superintendence of C. W. Boyington, Esq., late engineer of tho Bensley Water Co. of this city. The Company has some 1500 tons of rock out and about 90 men, mostly Mexicans, in their employ.

## COPPER COMPANIES.

There seems to be no abatement, nor present prospect of abatement to the excitement in regard to Copper Mines. Not a day passes without bringing to our notice, either through the interior press, or through private channels, some new discovery or some wonderful deveopment in mines al-
ready opened. It would be useless for us to attempt to ready opened. It would be useless for us to attempt to chronicle all, or even half of the "discoveries" which we see reported; they would be of but little value to our readers. We have given from time to time such practical hints as we have thought would be of value to prospectors, most of which have been pretty generally copied by the interior papers. We have reason to believe that such paragraphs have been read with profit.
The Copper interest has now arrived at a stage of develop. ment which affords unmistakeable evidence that it is soon to occupy a prominent position in the mineral resources of the Pacific coast. Several of the carliest discoveries have al ready arrived at a stage of productive value. Not less than 1200 tons of ore, assaying from 16 to 25 per cent, have been shipped from this port to Boston since the lst of January. The principal part of this amount has been shipped by the Union company of Calaveras county, the balance from the Napoleon and Keystone.
The Union Mining Co., (not incorporated) hold 1950 ft divided into 13 shares of 150 feet, which are now held at a very high figure, with none in the market. The dividends of this mine are expected to reach $\$ 20,000$ per share, for the current year. No assossments have been levied by this
company. The principal shaft at this mine is about 200 feet deep.
The Keystone is the first "extension" of the Union. Tlie cost of opening the mine was $\$ 24,000$, which amount has already been realised. The mine is now in good coudition, yielding about 100 tons of 20 per cent ore per month. It is an incorporated Company with 3000 shares. Its first dividend will soon be declared.
The Napoleon Copprer Co. is located about four miles south of Copperopolis; it is an incorporated Company, with 2700 shares of one foot each. The assessments, thus far, have reached $\$ 13,500$, or $\$ 5$ to the foot. The stock is chiefly held in this city. The mine shows two distiuct veins, and the ore is assorted to a grade of from 14 to 20 per cent. Large shipments of ore have already been made from this mine.
Tarle Mountain Coprer (Oo., Calaveras county, ia now in active process of development. They have tunvelled 135 feet toward the vein, and commenced two shafts, one of which is down 112 feet and the other 45 . Six haads are employed upou the work night and day.
This Alta Copper Company in Del Norte County is an incorporated association. The ore consists chiefly of Carbonates. Active operations are in progress for its development. The Company is already taking out ore of a good quality.
Tae Nevada Copper Mintng Con near Grass Valley. We have already in a rrevious number of the Press, spoken of this Company as having struck very promising ore at a depth of 25 feet. It is incorporated in this city.
Copper Mill Mining Co., is a newly incorporated Company which has recently commenced th developraent of its mine in the Solidad District, Los Angeles county. They have struck the lead in a shaft at the depth of 25 teet, with very excellent prospects.
The Occidental. Copper Co., in the same vicinity, have 20 men at work, driving a tunnel, sinking shafts, ete.
Tuf Solidad G. S. \& Copper Mining Co., also in the ame neighborbood, bave let a contract for sinking a shaft 100 feet deep on their mine. They are now down 45 feet and are taking out ore rich in Gray Sulphurates of Copper. The company has three sets of hands at work night and day-Mr. A. Woodside is Superinteudent of the last nam-
ed mines.

## REMARES

The Mining Sharn Market bas not been an active suriog the past week ns
 emanco, at bluctuatug pritem
Thatify has conturet it guind demand at a alight adratico, chictly on 30 150.
1.120.
weetren has also been in condiderable demund at a zmall adsance or noqurtation.
Lasy beyan ban not been much inken though freely offored at declontag les. Whbir has bere lighty dealt in at adsaneen rates. Gould and liurs le repurted.
Esmeralda stocks have been very quiet. But little has been done in any ve sifer Ililt and Josephine, both of which have beet activo at matoriy shanced ratea.
Wo apjead our usco 1 transactions of the reek.
TRANSACTIONS IN SHARES, FOR THE WEEK.

## NEVADA STOCKS

## Gould \& Curry, 20 at $\$ 3,700$

Ophir, 12 at $2500 ; 12$ at $2550 ; 12$ at 2555.
Chs. Cuney, 29 at 140 b $30 \mathrm{~d} ; 4$ at 137; 5 at 140; 5 at 145 $30 \mathrm{~d} ; 9$ at 138 b $30 \mathrm{~d} ; 19$ at $150 \mathrm{~b} 30 \mathrm{~d} ; 20$ at 150 b 30 d ; 1 at $135 ; 8$ at $140 ; 9$ at $140 ; 10$ at $150 \mathrm{~b} 30 \mathrm{~d} ; 3$ at 135.
Federal Hope, 50 at $3 \frac{1}{4} ; 50$ at $3 ; 150$ at $2 ; 150$ at $1 ; 300$ $11 / 4$; 25 at 1 ! 6.
Burning Mascow, 3 at $145 ; 20$ at $155 ; 21$ at $160 ;$ b 15 d ; 4 at $160 ; 10$ at $165 ; 10$ at $170 ; 24170 \mathrm{~b} 30 \mathrm{~d}$.
Daney, 20 at $450 \mathrm{~b} 30 \mathrm{~d} ; 60$ at $400 \mathrm{~b} 30 \mathrm{~d} ; 32$ at $375 ; 20$ $392!$ b $30 \mathrm{~d} ; 20$ at 405 b $30 ; 20 \mathrm{at} 420 \mathrm{~b} 30 ; 40$ at 430 ; lat 420 b $30 ; 40$ at $410 \mathrm{~b} 30 ; 20$ at $480 \mathrm{~b} \mathrm{30;} 40$ at 46.5 s I; 20 at 480 b $30 ; 20$ at $4821 / 2$ b $30 ; 40$ at $400 \mathrm{~s} 30 ; 20$ at $18 \mathrm{~b} 30 ; 40$ at $380 ; 20$ at 425 b $30 ; 20$ at $475 ; 40$ at 460 b 30 ; is at $450 ; 4$ at $440 ; 20$ at 475 b $30 ; 8$ at 45528 at 475 b 30 at $4.50 ; 20$ at 4554 at $500 \mathrm{~b} 30 ; 60$ at 475 b $30 ; 40$ at $60 ; 12$ at 455.
Chullar, 10 at $380 ; 20$ at $375 ; 10$ at $370 ; 20$ at 370 s 30 0at 375 s $30 ; 20$ at 400.
North Potosi, 20 at 46 b 30; 50 at 45.
Lady Bryan, 30 at 18 b $30 ; 15$ at $16 ; 42$ at $17 ; 200$ at 18 $30 \mathrm{~d} ; 40$ at 166 万 $30 ; 80$ at $15 ; 2516$ b $30 ; 25$ at $14 ; 25$ at $3 ; 150$ at $141 / 2$ b 30 .
Nurtun, 20 at $20 ; 50$ at $25 ; 10$ at $28 \mathrm{~b} \mathrm{30} ; 10$ at 26 ; 50 at b 30 .
Adriatic, 50 at $10 ; 15$ at $9 ; 25$ atat 10) s $30 ; 60$ at $10 ; 40$ t 10; 40 at $12 \frac{1}{2}$ b $30 ; 55$ at 12 b 30 .
Meredth 22 at $42 \%$. Desert, 50 at $7 ; 50$ at 6 .
Tecl, 10 at 25.
\}Rhudes Diggings, $\overline{5}$ at 50 5 10 at 48 De Suto, 15 at 75 ; 5 at 85 ; $\overline{\text { ant }} 9.5$; $1 \overline{1}$ at 100.
Hale and Nurcruss, 20 at 920 b $30 ; 10$ at 930.
Unious (Gold Hill,) 15 at 31.
Santa Cruz, 10 at 20.
El IVorado, 15 at i8; 20 at $80 ; 10$ at 110 .
Burnside, 2 at 35 ; 10 at $36 \%$
Reese River, 60 at j; 40 at 5.$\}$ Dane, 10 at 20.
Sierra Nevada, 10 at 60.
Juhuson 'I'unnel, 40 at 5 . Mount Davidsun, 11 at 6.
Gov. Nye, 16 at 17 b $30 ; 100$ at $15 ; 5$ at $151 / 2 ; 50$ at 15 b $0 ; 15$ at $14 ; 50$ at 1412 .
Mazel Green, 10 at 3 , $; 10$ at $31 / 4$. $\}$ Potosi, 20 at 700. Bremus, 10 at $25 ; 15$ at $2 \overline{5}$.
Rhodes lifgingra, 15 at 47 ; 5 at $471 / 2$.
Bajazet, 25 at at $30 ; 10$ at $321 / 2$
Cedar Hill Tunnel, 15 at 5 ; Poney, 25 at $321 / 2$
Nevada, 5 at 30. $\quad$ La Providencia, 10 at 20.
Red, White \& Blue, 50 at 15 ; 50 at $171 / 2 \mathrm{~b} 30$.
South Burnside, 15 at $4 ; 15$ at $41 / 2$.

## EsMerdida stocks.

Wide West, 5 at $350 ; 5$ at $340 ; 5$ at $380 ; 5$ a $\ddagger 390$.
Santa Rosa, $\overline{5}$ at 15 . $\}$ Ural, 5 ut 200.
Bodie Bluff, No. 1, 50 at $101 / 2 ; 100$ at 11.
Poud, 15 at $70 ; 20$ at $65 ; 10$ at $70 \mathrm{~b} \mathrm{30;5}$ at $60 ; 5$ at 70 ; 10 at 80 b 30.
Silver Hill, 45 at $45 \mathrm{~s} \mathrm{30} ; 15$ at $46 ; 5$ at 48; 20 at $511 / 2$ 50 at $52 ; 75$ at $56 ; 10$ at $55 ; 30$ at 60 b $30 ; 20$ at $57 ; 20$ at ; 25 at $58 ; 20$ at $60 ; 30$ at $61 ; 60$ at $603 \%$
Utah, 10 at $115 ; 10$ at 120 b
Utah, 10 at $115 ; 10$ at $120 \mathrm{~b} 30 ; 10$ at $110 ; 10$ at 115 b B0; 5 at I02 $1 / 2 ; 40$ at 100.
Falls of Clyde, 25 at $6 \frac{1}{4} ; 10$ at 9.
Garabaldi, 10 at 35 . \} Davis Consolidation, 200 at $l$ Tucker, 10 at 25 . ' Bamboo, 10 at 420 at 14. coso stocks.
Josephine, $20251 / 2$ b $30 ; 56$ at 24 b 30 d; 41 at $23 ; 10$
$30 \mathrm{~b} 30 ; 4$ at $24 ; 15$ at $30 \mathrm{~b} 30 ; 6$ at $22: 50$ at $2014 ; 10$ at
 at $20^{\prime}$, Willuw springs, 30 at 1,3 , 4 at 20 .

## falifinsia stutks.

Melones, 5 at $80_{\mathrm{s}} 30 ; 5$ at $100=30 ; 5$ at $130 ; 2$ at 127 ; 5at $12 \overline{4}$ ! ; ; 5 at 130 .

## coprer stocrs.

Napoleon, 10 at 60; 10 at $50 ; 265$ at $372 ; 20$ at $75 ; 4$ at 68 4 at $68 ; 12$ at 77 b 15 d .

## transactions of the wefk in sacrabento.

Bajazette, 25 at $81 / 2 ; 20$ at $10 ; 20$ at $11 ; 100$ at $12 ; 55$ at 5; 20 at 20; 20 at 30;
$\left.\begin{array}{c}\text { Realito, } 10 \text { at } 15 . \\ \text { Iona. } 75 \text { at } 22!\end{array}\right\}$ Bodie, No. 1, 25 at $121 /{ }^{2}$.
Iona, 75 at $22!$ ! $\quad$ Michigan (Gold Hill) 20 at 30 . Pachin, 10 at $1 \overline{2}$ ', Billy Uray, 25 at 8 .
Ev'ug star 10 at 321 . $\}$ Contisence ( (G. H.) 10 at 10.
Mount Hope Tunnel, 7 at 50; 15 at 40 .
Meredith, 10 at $45 ; 10$ at 4.5 .
Jane \& Gilbert, 60 at $33 / 4 ; 6$ at 4.

## VIRGINIA CITX STOCK LIST.

Corrected for tho Miofing and Scientiac Pruas, Friday, April 23, I863.

Bid. Ask'd
Virgina Mining $D$

| Asliland................* - |
| :---: |
| Allall. ..... |
| Alchlısou. |
| Alluras |
| Birdsall |
| Henizet aud Golata Era.... 20 |
| Burbartio |
| mig Muso |
| Beuch-Yuxtou .............. 200 |
| Bisomiug daite. |
| Lumans (Bucha |
| Cedar 1mil! Tor |
| cille |
| Limminurcia |
| Culsulidatel |
| Margan. |
| Sapire. |
|  |
| Gricos Malle) |
| 11.rzel (isceli |
| Uhar rivon, Vinguin |
| Hhtrr ismil, vil, Fran. hecor. |
| Ifviug. |
| hivarame |
| Lait Crumu |
| M.ssillu |
| Ncisee |
| Miltur |
| М1ヵmarch |
| M1.atinum |
| Matues |
| Orintial........................./2 |
| 1'vide |
| Reytun................ to |
| hecurder.................. 17 |
| Silltal |
| Sallt lie. |
| Silmmit, (u) |
| Siurra Nev |
| sicramen |
| humu uck |
|  |





, d Abk' $\begin{array}{cc}5 & - \\ 5 \\ 50 \\ 50 & 80 \\ 350 \\ 350 \\ 10 & 12\end{array}$ | 0 | 350 |
| :---: | :---: |
| 0 | 12 |
| 5 | 7 |
| 7 | 20 |

## Gold Hill District

 20350
$\qquad$

| 350 | d |
| ---: | ---: |
| 3 | C |
| 20 |  |

look lug ore, amil the ntock lias ndranced to $\$ 20$ © 25, with quito number of s.thonluring the weok.

The Athluth is toobisg up a hirte, and givos promiso of improvemont. Wry har oer in beng tatiod frum tac mino.


et Is trim, at \$375 o क1), with a dispasition to hold for

## higher Afureq.

We quote Oxerman at $\$ 40$ (3) 42; Eurrka at $\$ 30$; Koh-i-goor at $\$ 125$ (a)

 \$16. Birdsull, Allou, Uhiul, Pey toua, Filir view, Biltun, Buruside aud \$oSt6. Birdsall, A
ray are inactive.
[For subarquent "remarks" to April 23a, see our Wastoo letter of that date.]
Fureka, 10 at 30-Marengo (Reese Riveer,) 25 at 10; 50 at 9, 25 at 8 -Bloomingdale, 10 at 5 -C Caledonia Tuunel, 20 at 18-Nightengale, 502 -Bella Union, 20 at 6-Bullion 10 at 30 -stephien 'I'rowbridge, 10 at $371 / e^{-10}$ at 60-Howard, 50 at 1-Irviug, 10 at 10 -Masteru Co., 10 at 9-Baily, 10 at 2-Burninr Moscow, 5 at 180-Cedar Hill Tunnel, 5 at $5-5$ at $4{ }^{1} \underline{2}-1$ urran, 20 at 3-Harrison. 5 at 14; 25 at $15-$ Sutro, 10 at 12 - Texas, 9 at Ђ-Main Ledge, 25 at $30-$ Overman, 20 at 45 b .5 Ifs.-Union, $141 / 2$ at $25-$ Silver State, 25 at 5 -Stella, 25 at 6 -Oscenla, 12 at 14; 19 at 15; 20 at $14 ; 10$ at $15-$ Altarus 20 at $71 / 2$-Fastern Co., Front Lead, 10 at 10; 10 at 9 --Sacramento 7 at $65 ; 10$ at $70 ; 7$ at 65-Oakland, 10 at14; 10 a 11 ; 20 at 14 -Ponce de Leon, 10 at 10; 20 at $2 ; 25$ at $3 ; 20$ at 2 -Branch Mint, 50 at 1Hale \& Norcross, 10 at $750 ; 5$ at $800 ; 10$ at $750 ; 5$ at 750 Recorder, $10010 ; 100$ at 10 -Platt \& King, 20 at 20; 20 at 20; 10 at 15 -Bella Union, 20 at $51 \%$-Wide West (Spring Valley,) 20 at $8 ; 25$ at $71 \frac{1}{2} ; 10$ at $8 ; 20$ at 8 -Beach \& Puxton, 5 at $200 ; 5$ at 200 -Milton, 20 at $75 ; 10$ at 67 -Belvidere, 9 at 21-Gold Hill, No. 2, 10 at $275 ; 10$ at $350-$ Gold Hill, No. 3, 5 at 140-Gold Hill, No.4, 5 at 140Cole, 10 at 10

Virginia City, Friday, April 23, 1863.
Considerable excitencut has been munfested in the st nct market during the present wock. The activi!y, howser, has not been calused by any over heated imagination, but upon tetuat developments made in the mines. Betcher has ad rauced from $\$ .50$ to $\$ 150$, with moro buyers than sellers, and a fitir indication of continumg in good request at even bigher rates than the ligures quoted. Thuouly obatacle which is in the way of these clains ranking aroug the first of the territory is the litigation with other compunie. The orv taken tron the mine in quite equal in extent and qualIty with that of the Gould \& Curry it the same doph from the surface. Uuion has been in dem.nd at advanced rates sivee yesterday, having atlained a Bigure one humdred por cent. ubove yesterday's selliug. Demand still unsuppied. New levelopments in a different portion of the miue from that heretofore worked by the company have brought about renewod confidenco in the extent ad well as the undoubted richyess of the mine. Yullow Jack is in request at $\$ 25$ (9) 150 without sellers.
A new discovery of rich rouk made in gradiug a lot on $C$ street han been the sourco of nucla speculutiou un a mall scalo. Hinwever, the bubble of exuitement is alredy boing pierced by more careful redection, and it is pretty generally couceded that if the existence of a ledge in that locibity suould be proven, that those locatiug at tha late day could stand no chance of holding it to the exclustou of the mavy old locations in that locality.
In consequence of the C street striko the Bajazet \& Golden Era has advanced from \$11 (9) 20. The rise will prove temporary, unless kept up by mure substautial developments than these.
Denand is incrousiug for Bullion, Priucuss, and Overman, the two latter haviug advanced it prico one buadred per ecut. during the last week.

## WASHOE STOCE REMARES.


The Stock Brarket durang the week endug with date, has been quite active, and athre anduat of trausters have becu woted. Shacks to the Irolable amount of $\$ 250,000$ bavo chauged hands in Virgluia City aud Gobld IIII. The past will compare litvourably with aly frecedug week, buth iu the aggicgate of busiucse trausmeted athe the gemeral attitulg of stuctis.
The chinf exertement of the period bas boun tho now discovery in Gold Bill, whish consists af a newly developed ledge, of surprisibg richress, imlocality. Should the new ledge prove to be permathe front vein in that locality. Should the new ledge prove to be permanent and continuous, it will doubtlese bo clatmed as a portion of the main Gold Hill possessions, and give rise to a now series of litigations. The immediate result of this important discovery bas beon to produco a decided advance in tho eligibly locilled miter iu its immediate vicinty.
The recout discoveries at Peavine do not yet appear to attract much attention.
During the week something of a rally occurred in the Sacramento, which advanced to $\$ 6750$ @ 70 but declined at the closio to $\$ 6220$ @ 65 , witls llulou
Allalong the line of the Comstock, claims have continued to advauce. Tho late advauce in the Goutd and Curry has created a demund for suvage at $\$ 2000$, and the mines adjuiaing have correspondiagly advanced. l'rom.
incut among then stands the lotosit. locut among thein stauds the Potosi.
The El Dorado is saleable it $\$ 75$, but it is generully held for higber rates, It has grown considerably in favor during the week, and about 200 feet lave been purchused to tll orders from Sau Frabeisco.
Belvidere is marketable at $\$ 2250$, and probably 200 feet have changed hands ut these ligurbs, or a shade lower, since Moaday.
Zouave is quiet aut nithout sules at $\$ 17$ @ 18 No transfers have been
reported.
Norhing is doing in Cole or Santa Ritn. The former is quotable at Si5, und

The P'urseverance, a re-location of tho old Eleloc, is dovelopiug some fiue


## LIST OF MINING COMPANISS HAVING OFFICES IN SAN FRANCISCO

Name of Company. RUTA Tisi
ANELORS
JFFFERSON
COOK...... CoLk.....
CEDAR..
SuTOGAME
SEXECS.


## Albuyt .... Indy Brya



Volcanic Smelting Furnace.


Mining Sucks if - Ill Finds Jonghe is Soll?


FREDPRTCK MAXAELL,
Mechanical de atchatecturab 1) R 」



A. ROMAN \& Co.,

Book Establishment, 417 and 419 Montgomery strebt, San francisco.
Orders respectinly sulicital and promptly netember to









 Prachaal d-s,yimg, ly. Alichell.
ilver Ores dam =ilver Nithes, by Pro. Blake. Trest hethunay of Aits, Manumerures nud Mines. W.maln. Machumen 11 , chithy and Eagincering keromius' (umpmal Analyas. fibles.
Togetner with matys othex.worke in this sud sfimitarlines nder un ahort notice. Co 417 \& 419 Moatoomerv Street.

## READ THIS!




 lse-suocrodnd in mastering the Hancs, and. preventing
Wurse consequences - [Evening Bulletin, dug. t.

## THEN THIS!

Comet Illumitating Oil!
Manafactured expressly for Stanford Bro.
Brand of Kerosene

best family oll in the markeit STANFORD BROTHERS,

$$
\text { (25. 121, } 123 \text { anl } 125 \text { Ciulhte } 18 \text { street. }
$$

3ur $\mathfrak{B e a d t u n g ~ f u ̈ r ~ © r f i n d e r . ~}$
Erfinber, weldie nidjt mit ber englifdyen Spradig befanut finb, fömen igre Mitthungencil in Der beutiden Sprade madjen
Sfizzerwon Erfireungen mit turzen, Dcutlid) geidricbenen Beidureibungen believe man zu aborefificen ant.

$$
\text { J. SILversmitu, Exehange Builling, Roon } 23 .
$$

## Gird's Budding Kinife.

$\mathrm{T}^{\mathrm{HE}}$ attrivtion of parigrss, horticcluturists






SQUARZA'S PUNCH wroumsule axd revan,

No. 44 Leldesdori st, noar Sacramento



Oregon street, between Wrachingtom and bavis and Front $\mathrm{M}^{\text {anamacturevs of Pire proor Doors ana }}$

 and dispatch.

Mr. Sims Appreciates the Past Hberal p.twonagen nf his filhols, and trusta that he may continue to merit if im the fiture.

For the Informition of strangers
weuld ay that he fends confident that hiss experi
hice in hin lan ficular calling is surpassed by nouc on Uns const, which hiss superior work, semt to almost eve
ry towa in this shite, Ur"gon, alat Victoria and the Sumb



To Mill Owners.
Wamten, by a peram fuly competont to the position situatio. the Appleus was enlbiged lor about eight ymer hise. The Applichat Wiss engaged lor about eight ywar and has acted in the sume capracity in Gold aines in this sate for the pust beved yeirs. He luss had much expuielnce, in Cornwall, as an Assayor, a Machinest i Draghaman, a Nurveyor and an Assorter of Copper
Ore He cun givennphestimoniey as to his capacity for the purition he sireks.

## W. T. \& J. GARRATT,

 Gity Brass and Bell FoundersCor. First di Market sts., San Francisco.
B abier Meral castivas, fire engines, Force



 ratt's Pateut Iuproved Jourual jfetal.

## SQUARZA'S PUNCH.

## FIRST PREMIUM

at tail sacramento agriculiural state fair For 1862.
also; first premium
t the Sna Francisco Bay District Agricultural Fair, 1862 Mandeactory, wholegale apd retar,

No. 44 Leidsdorfi street,
Opposite the What Cheer House, San Franciaco.
LATEST IMPROVEMENT in Ladies' Buckles.


 bentaty render thetu the must usiclul an well as ornamen Orderstron the country respectfully solicitod. For particulars call at or addross, FREDERIK REICHEL, Manufacturing Juweler,
$62 n$ Merchant street, Sun Faucisco

GんFATKENUCIION IN PIRICES.

STANFORD BROTHERS, 121, 123 and 125 California street,

Keep the Largest Stock of ull Kinds of
Lamp Stock
And will Sell chuaper than any other
House in chis siute Lamps, Cunineys,

Wicks, Campirne, Burvina Fluid,

Alcohol, Coal Orl
Turpentine, Kerosene Oit,

## COMEC ILLUMICATING OIL,

 Sperm Oil, Lard Oil,Macuinery Oil,
Rape Seed Orl,
Cina Nut Oil,
Pular Oil,
Linserd Oit, Raw and Boiled,
Shark's Oil,

## Neat's Foot Oil,

Tanners Om, Eto.
Our custnmers in particular, and the country trade genchansmg from travelum agents, os wo will sell at lesg rates than they call a aliord to. aplois

## 60 lbs. MIARINE AND

Fire-Proof Paint;
M WuFactured by the pacific merallurgical rom ground Miveral Rock coutaies Arsenic, Conper, Litharge and six other Minerals. When uned on the Decke Buttnins of slips, it is equal to a cont of sholle, and quite equal to cupper, no wor

## DIRECTIONS :

For Decks of Shapa, use two parts Mineral Paint, ene part White Lead, mixwith Liuseed (iin.
For Boitonan ol Yespols, use oue part ground sulphy For Batenne orvescls, use oue part ground suphur
three parts Mineral Puint, mix wilh Coal Tar alud apply it hot. For sale by all Ship Chandlers and Tradesmen, in hoxer of 50 lts. each, or by the Pacitic Sfetallurgical Works.

25 POUNDS FIRE-PREOOF PAINT.
When used on Roofs, Buildings, or Fences, it is equa) o coverng them with a coat of stone, beipg perfectiy DIRECTIONS :
HOUSE :- Siix three parts Msuerral Paint with one par White lead, thiu with linssed oil: If a lighter color is RUO :- Five pa te of Minerall paint, one part white Leal; mix with Liusced ull. Put in thick onat tiu Roof as oue cuat when properly a pplied will last three yeur E.
G. T. Fovqux, Superintendeut.

WORKS, North Eeack; Onice, 318 Callfornia st., Snn Francisco.

## WRIGHT'S PICKS.

JOAN WRRIGHT, of Sacramento, has establisned humSelf in sua raucleco for the manuficture of evory deseription of 1 ICKS, of the best material, at reduced prices. Pick Exes of the best iron furvished in any quan tity, at low rates Orders from the country promptly attended to. N. B.-None genuine unless stamped with my uame. JOHN WRHGHT, 511 Market street,

Opposite Battery, San Frapeisco.

## REMOVAL.

OFFICE OF The PACIFIC METAL
Wirng euliurged our Torks at North Beucli, we are uow eutbled io reduce from 10 to 15 tons of silver or Gold and silver ore, and Sulphuret $\Delta$ ssayers', or Sil versmithes swecpungs reduced or purchased. copyer ubli-Highest market ratee adyanced in cush, for shipmeatis. Branishaw, Agent,

## SPECIAL NOTYCES.



Office of the Sam Patch Gold und siiYer Dining Company, No. 7 , Mum Eonnery Block.-At a
meetiug of the Bmard uf Trusteus beld March 00 , 1863, in Assersment of Fifty Cumts, ( 50 cis.) per shise en the Assersmemt of stack of sant Compathy was levien, payable on or
before Thursday, Aprid 30, 1863. before Thursday, Aprid 30, 1863.
J. H. BLOOD, Secretary.

ANNUAL MEETING-The AnMunl Meet ing. Ior the electlut of offictrs, of the sAM 1.ATCH1 G,
\& S. M. Co., will b? held at the company's Ofice, No. 7, \&S. M. Co., will bz held at the company's Office, No. 7
Montgomery Block, on Munduy, May 4, 1863, at I o'clock Montgomery Block, ou M. J. H. BLUUD, Secretary.
Sun Francisco, April 22, 1863.

Schmeltzer Gold and Silver Mining Cotupauy.-At a meeting of the Board of Trustecs of this Company, beld Aprill II, I863, an assessment of 25 cents per share was levied, payable in United Staten coin, to the Secretary, at the office of the company, No. 500 3ontgomery atrect, on or before FRiDAY, April 17, 1863. ap20.Im M. G. ELMORE, Secretary.

## To lifine Owners.

Parties having a Good silver Mine 3achinery to wor
Hachinery to work it for au interest in the Mine
drell to apply at thjs office. No 'organized co pany need apply.

New Patent Agency.


## The Patent Agency Business,

And would inrite Inventory and Discoverers on the Pa-
cific const, who wish Dispatch as well as Eiconomv to call cifecoast, Who wish inspatch as well as Economy tocall ton, which, together with our own experience of several y ours, readers the

## Mining and Scientific Press Agency

The most desirable place to make application for Letters Patent on the lacific coast. Apply at
Office of the "Mining and scientific Press," Room No, 27, Federal Building, corner of Battery and Wash ington streets, (directly opposite the Post Oflice,) sian
Fraucisco.
EWER \& SMICH.

FOREIGN PATENTS OB'CAINED
By application at this offee, Room 2 , Federal Building EWER \& SMITE, Solicitors.

## NOTICE TO INVENTORS.

nventors wishing to file Caveats sbould apply at this
Omce, Room No. 27, Federal Building. Terms mody Once, Room No. 27, Federal Building, Terms matis.
Ete.

## PATENT RIGHTS.

Patent Rights Bonght and Sold, $\Delta t$ the office of the "Mining and Scientific Press" Agency
KWER \& SMITH.

TMPORTANT TO INVENTORS.
Inventers who obtain their Patents through this Ofice can have their Inrentions illustrated and described iu the columns of this paper Freve of charge, they meroly furnishing the engravings, We are aleo prepared to fur-
nish eogravings at reasonable rates. Those who do not care to gravings the expense of having engravings prepared can have their inventions fully noticed and described in our columns, free of charge. The free use of our columus to eid them in intioducing their inventions to the
public will be fouad a most important adyantoge to in. public will be foud a most important adyantage tn in
ventors.
EWER \& SMITH.

WANTED,
$\mathrm{G}^{\text {OLD QuARtz SUITABLE FOR }}$ CUTTING JEWELRY,
by frontier a. devierny,
IS ap
487 Pine streot, San Fraucisco.
P. M. STEAMSHIP COMPANY. NOTICE.
Until frither notice, the Steamers of diopatehed on the

3d, 13th and 23 d of each month. When any of the above dat sfail on sunday, the stean er will be dispateled on the follnwing Monday
A. B. FOREES, Agent.

FULTON FOUNDRY \& IRON WORKS

## HINCKIEX \& CO.

manufatturere or
Steam Fngines, Quartz, Flour and Saf Mills; Cast Iron
Fronts, for Butings Fronts, for Bulldings, Mining Pemps, and all kinds of Machinery, Etc., FIRS' STREET,
Betwees Market and Missow............sar Francisco.
***All kinds of Rov asd Brass Castses furnished at short nowice. Every style of Fryshisg io frou when
cist. Repmiring of Machinery neatly done. PATTBRN MAKING in ali its various forms. Prices low D. B. Hzerley. Ww. E. Wortr. Wm. A. Fitid.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel. THE SIMPLE, COMPACT, STRONGAND effective manner in which it is appled to any beight of fall, (3 feet to 300 , and to any kind of machinery, will Save in Tranaportation Material and Labor, from 25 to 50 por cent. of the entire cost or the
Structure to which it is applied, and propor-
tionally increase its value.
For full information from the Inventor, apply at the Miners' Foundry, trom 10 to 11 A . w., or address J. M. BFTH.

Miners' Foundry, San Francifeo.
This Wheel is fully graranteed. Jan19-tr

## Agency For Patents.

$T$ HE UNDERSIGNED having been long established in The Patent Agency Busimess, and having favorable at the Patent OHice in washingtou, offer their service
for the securing of Caveats and Patents ulso, will at ten to the sales of Patent Richts, and to all matters
connected with patented invon tinns.

WETHERED \& TIFFANY,
Office, 410 Montgomery street.
CHARLES R. BOND, (Iate City and County Aseessor.)
REALESTATEAGENT,
No. 410 Montgomery street, San Francisco
Real Eetate Purchased and sold, and Loans Nego-
ciated. ciated.

## WHEELER'S

Amalgamating and Separating Pans,
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturationg and amalgamating purposes to any otber in use.
The mnst important privecinle connected with the ope-
ation of these Pans is the sen ration of these Pans is the separation of the triturating process from thit $t$ of extracting tho amalgam from the
sand. Thue ebief cause of luse of the precious metals arisand. The ebief cause of luss on che precious metals arithe quicksilver, during the proces of trituration, aud in
cleaning up. By the iotroduction of ILe Seraratiog Pan cleaning up. By the introduction of LLe Seraratiog Pan
to $f$ Ilow the trituration this loss is eutirely arnided. In
to working these machives uhere is no appreciable loss of
quicksilver, and hence nove of the precious metals. quicksiver, and heace nube of the precious metals.
Wbere these Paus hare been introluced and operated
by the side for others ou sands from the same vat, the
Whe by the sidu nothers ou satus from the same vat, the
Wheeler Paus have uufrormly goined a large purcentage
of inetals over its competitors, as well as a still larger of intals over its competitors, as well as a
porcentage in the amount of work performed.
*** These Pans man be seen in daily operation, at the
Miser's Foundry, on First street in this city, where Mixer's Foundry, on First street in this city, where alf interested are isvited to call and examine for themselves.
nolo-ts
ZENAS WHEELER.

Steamship Line! CONNECTING
CALIFORNIA AND NEW YORK, viA NICARAGUA.
750 Miles Shos ter than any other Ronte:
The Fast and Favorite Ilouble Engine Stcamship,
MOSES TAYLOR,
J. H. Blethen............... Commander,

San Juan del Sur.
From Mission street Wharf.
Punctually at $9 o^{\text {cellock, }} \mathrm{A}$. M., on
WEDNESDAY, - - APRTL 30, 1863 Connecting at GREYTOWN with the Splendid Steonship ILLINOIS ............................ 2500 Tons.
Redueed rates of Passage and quick trips aro secured by the re opening of the Nicaragua Route. These Steumers are ulisurpassed for sneed. cleanliness
and rafety, und every effort will bo made to iasure the and rafety, ind every elfort will bo made to insure the
comfort of passungers For further information apply to
a20 No. $\mathbf{4 0 7}$ Washington Sureet, opp. Post off

## P. M. S. CO.

PACIFICMAISTHAMEBP COMPANYM
 for panama.
The Splendid Steamship,
CONSTITUTION,
J. T. WATKINS . . . . . . . . . . . . . . . . . . . . . COMMANDER Will leave Folsom Strept Wharf, tith Passengers and
Troasure, for Pauna Treasure, for pauama
On Saturday,
May 2, 1863.
AT a O'ClOCK, A. M., PONCTUALLY,
And connect, via Panama Railroad, at Aspinwall, with
tenushlins for New York. For Freight or passage
A. B. FORBES, Agent.
je4 4 Corner of sacramento and Leillesdortt sts.

## Miners' Foundry

MACHINE WORKS,
Firrat st, between Howara \& Folsom, san franciscu.

F VERY DESCRIPTION OF IRON AND bRASS MACHIE. nery, the Bestand Mnat Economiral, manufactured in the state of Califorvin, will be furnished with dis-
patcl Lt the Miners' Foudry and Maclion Worke, as:
Steam Fungioes and Boilers, Flower, Saw and Quarti
mill maclinery, Siuliny Pumps, Amalgamators, Retorts, mill maclinery, Milining Pumps, Amalgamators, Retorts;
Etc.,
Eic., Particular attention will be given to tbe manuufacture
of Machinery in Scetions, desigued for nlaces of difficulit accesc. Various mudels of Quartz Crushers, Amalgamaturs and Water Wheels-some in operation and on exbi-
 comall quantities will be afforded ample facilities, free of
cost All parties desiring accurate nod highly finished dravy
ings and Superior Muchinery, at inusi rensorable rutcs ings and superior Michinery, at inusi rensorable rates
are cordially invited to call before con tracting elsewbere. Howland, ANGEL \& King.
San Francicco, Fobruary 23, 1863.
San Francisco, Fobruary 23, 1863.

## DONAHUE'S Union Iron and Brass Foundry,

The First Established in the State.
MI ANUFACTURE STEAMENGINES, Mu SAW AND GRIST Mill MABClinery, Poilers, prices. Have now the largest and best assortment of
Gar and Machinery Patterus in the State, a list of Which will be forwarded to sayone deririug it, free of
cost.
PETER DOAABUE

PALMER, HANSCOM \& CO. GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco, Furnish Castings and Machinery of all kind ALSO:
Genuine White Iron Shoes and 1imb. palaler, hanscomb \& Co

## To Quartz Miners.

 5nox's TmprovedAMALGAMATING PAN, PALMER'S PATEN'T STEAM CHES'
$T$ He above combination secures the mo any complete analyamatiou of the precious metuls By it stea $m$ win in roduced in the mast effective ande
nomical mat ner, while it is peculiarly ulstuted to eatching iloating gold and silver, knowu to bo with wise lust Mado exclunively by PaNcom \& co,

Nos. 19 \& 21 First Strect, Ean Fruncisen
The public are informed that Letters Patent have be granted the undersigned upan Steam Cliest False B, $B_{1}$
coms for the insite of A malganating lans or Tlubs, a toms for the inside of Amalgamating pans or or selli are cautioned against making, buying, using or selli
tho sume without his consent. W. A. GiLMER

## VULCAN IRON WORKS CO.

 P. TORQUET................ MAN AGER. IVERS. C. R. STEIGER. S. ATTKEN

Steam Engine Builders,
Goiler Malers, Iron Fonnders and Ge: eral Enginecrs,
Nob. 137 \& 139 Fitst Sttemt, … . San Francib,
 lour and Quartz Mills, Pumping and Mining Machine
etc., etc., etc.

Proprietors of Morse's Patent Firc Grates Tofval, Fourneyton and other Turbine Water Whet with latest improvements.

## DEETKEN'S

Chemical and Metallurgical Worr
On San Bruno Road, Islais Creek, san fbancisco.
 ical process. Xield of sulphurets from 30 co 50 pher $c$ higher than the BEST AMALGAMATION PROCESS, Apparatus for separitigg sulphurets set up by
perieuced liands at a cost of $\$ 50$ to $\$ 100$, if desired mill owners. No power nor clean water required
he purpose.

LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET LHEA

The only exclusively Eoviler Making Establishment the Pactic Cuast Owned and conducted by Iracti of Oh Work, exccuted as ordered, and warranted ; to quality.
ORA Stand, corner Bush and Market Stree Opposite Oriental Hotel, San Francisen, Cal. LEWIS COFFET
J. N. RISDON

JAMES PHELAN, (Late J. \& M. Pbilan,
IMPORTER AND JOBBER,
Wines; Liquors, Etci, Etc
Nos. 616 \& 618 Front street, Established 1849 .
All Goods Guaranteed. Orders Solicit terms liberal.
[HEODOR KALLENBERG Maker of Models FOR INVENTORS.
M ACHINES, MAATHEMATICAL, Optical and Philogs
ical Instruments. Serales. Weiplits ate ical Instruments, Serales, Weichits, ete.: eparing of Machinery prnmply ateaded to
Oo. $\mathbf{A}$ Sansome street, corner Markek


## OUR MECEANICAL INDUSTRY.

We have already alluded to the wonderful progress which an Francisco has made durng the pust four ar five years mechanics and manufactures, and have proposed to give ir readers a brief notice of some of these industrial estabhments which are working out such vast accessions to the osperity and permanence of ourcity and state. In connuing these notices from week to week, we do not propose confine onrselves altogether to the large or "first class" tablishments; for we are not unmindful of the fact that 1 sach have grown np, within a few years, frum small be naings, to their present colosal proportions, and that otha that are now circumscribed in their operations, and kept ck, for the time being, perhaps by the lack of capital or fluential friends, have nevertheless all the ingenuity, skill d energy, re quisite to manage the most extensive works this description. All such are destined to advance with a growth of the city, and many an owner of a small es-dbl-shment, or one who is now simply a working mechanic, filing long hours in dark and contracted shops, will ere ag find themselves owners in large and flourishing estabhments, with scores and perhaps hundreds of men in their nployment.
The field of operations for mechavicsin this city is ununded. The demand for machinery for mining, milling, anufacturing, etc., is increasing with rapid ratio, and where ores are now employed, hundreds and perhaps thousands, Itl in a few years be required. Our mountains, north and buth, from the very coast to the far interior, through and her the Sierras and streatching across the "Great Basin" fite to the Western Slope of the Rocky Mountains, are Il of minerals of every known description. So numerous o our mines, that explorations, instead of decreasing the hances for bew operations, actually adds ten, twenty and hundred fold to the chances. Never before in the history Califoruia, or indeed of the world, has there been such excitement about new mineral discoveries as at the presAt time, and never before was the faith of our people so mly fixed in the absolutely inexhaustable nature of our ines.
Centaries have heen insufficient to develop, to their present ktent, the mines of the insignificant territories (insignifiant ic extent) of Cornwall and Wales. What approximaon then car we, on the Pacific Slope, hope to make in a ingle century, toward the development of a territury ten pld richer than Cornwall ever was, and ten times larger pextent than the entire British Isles? When the nur-ing hild of to-day shall walk our atreets a tottering old man of pur score and ten, he will behold in this city a population arger than is now collected on the entire Pacific Coast, but - will not see one particle of abatement in the mining exitements of the day, or notice any diminution in the numer of "new discoveries" reported in the morning papers. these are sober thoughts-the legitimate inferences of presnt indications, which cannot be ignored, and of which we bould not be unmindful.
San Francisco is to become the London of the Western orld-the greal emporium of Asiatic commerce in its transit
eastward, and the centre and radiating point from which are to proceed all the supplies of machinery and material of every description for the development of our mines and to feed and clothe the people of the interior. The re-opening of the deserted mines of Mexico, and the late wonderful developments on the Fastern Slope, as we have before remarked have already occasioned a largely increased demand for machinery over provious years; but the imagination can scarcely picture the enormous increase in such demand which present indicaticns foreshadow. Nearly all this supp'y of machinery must be furnished in San Francisco. Scarcely a single decade has elapsed since the first steam engine found its way into the interior of the Pacific Slope. Now they may be numbered by thousands. A few years ago they were obtained chielly from the East. Now $\left\lvert\, \frac{1851}{2852}\right.$ the supply is obtained almost exclusively from the workshops 1853 of this city. Where hundreds of these tireless machines are now employed, thousands will soon be required. Indeed the time is rapidly approaching when the only limit to their employment will be the supply of fuel for their consumption.
The wonderful developments of the past few months are giving the mechanics o San Francisco, but a mere inkling of the great magnitude which this interest is sonn to assume. This city must continue the workshop of the Pacific Coast. No other point possesses adrantages which can, by any possibility, attain to any formidable rivalship.

## COPPER STOCES AT THE EAST.

Considerable excitement is manifesting itself in Boston, about this time, in relation to copper mining. The present high price of copper, and the remarkable success that has recently attended the working ot the mines, both at Lake Superior and in Canada, is attracting the attention of both investors and speculators, and it is believed that the returns of the next two or three years will be very important. Near Iy all the Lake Superior Mining Stock is advancing.
The-Acton Mine, Canada, is still making most, satisfactory returns and its stock is in demand at advanced rates, with but little in the market. This mine within the past few months has proved itself to be very rich, and the vein improves, the deeper it is worked.

The subjoined quotations were recently given in the Eastern papers, as an evidence of the "great advance in Prices" in Copper Stocks. A similar advance in the San Francisco market, would scarcely be noticed, bat in Boston, it is noted as something very remarkable:-
Acton......

Bohemian
Canada
Central. Copper Falls Franklin. Hancock.
Huron. .
Huron..... Isle Roya
Toltec ...

Monday, Monday, Monday, Monday,
Feb. 23. March 9.
Feb. 23. March 9

The Lake Superior News and Journal of Jan. 16, 1863, gives the following tables from the most reliable data attainable, showing the rise and progress of the copper business of the Lake Superior region, from 1845 to 1862. The amounts given refer to the rough copper produced as weighed and valued for shipment:-

| Shipm's in Tons. |  | Value. | Ship | Tons. | ¡Value. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1845 | $3 / 4$ | \$ 390 | 1854 | 2300 | 805,000 |
| 1846 | 29 | 2,610 | 1855 | 31.96 | 1,437,000 |
| 1847 | 239 | 107,550 | 1856 | 5726 | 2,400,100 |
| 1848 | 516 | 206,400 | 1857 | 5759 | 2,015,650 |
| 1849 | 753 | 301,200 | 1858 | 5896 | 1,610,000 |
| 1850 | 640 | 266,000 | 1859 | 6041 | 1,932,000 |
| 1851 | 872 | 348,800 | 1860 | 8614 | 2,520,000 |
| 2852 | 887 | 300,450 | 1861 | 10337 | 3,180,000 |
| 1853 | 1452 | 508,200 | 1862 | 9020 |  |

The authority before us does not give the estimated value of the yield for 1862, but makes the foliowing allusion to it, in substance as follows:-Although the yield of the mines for 1862 is less in tons of ore than the yield of the previous year, still the amount realized from the sales of copper will be largely in excess of the amount realized in 1861, the price of copper being higher the past year. So that the mines have actually paid better than in any previous year.
The Lake Superior mining region is divided into three Districts, the Portage Lake District; the Ontonogon District ; and the Keweenaw District. The first named contains seven producing mines, the second twelve and the third ten-making in all twenty-nine producing mines. The average product of these mines for the past year has been $\$ 163$,275 -estimating the value of the copper produced at $\$ 700$ per ton. "There is no question," says the Philadelphia Mining Journal, "but that the peninsula of Michigan is a California in mineral value. Moreover, it is near by; for, wher the Philadelphia and Firie Railroad shall have beyn opened to Erie City, it will not be long before the copper region of Lake Superior will become better known in this city ; because, then, in a car hence to Erie City and a boat thence to the farthest of the great lakes, a visit to Copper Land will combine business with adventure, in a new direation.
With a descending navigation from Lake Superior to Erie City and a single rail interest thence to Philadelphia, there will be cheap and convenient commurication with the mineral territory of the peninsula of Michigan."

Cast Iron has been recently experimentally manufactured at the Crevelea Iron Works, in Ireland, by the use of condensed peat. The quality of the iron thus produced is said to be equal to the best Swedish iron.

Telegrape to Reese River.-Telegraphic communieation has been establishec to Austin, in the Reese River country. The first message was sent from there on the 25 th ult.

Rice.-Rock from the Monitor District, Nevada Territory, assayed at Virgiuia City, has turned out over $\$ 8,000$ to the ton.

THE MINERS' I.ABORATORY-NO. I.
We have already announced the preparation of a series of articles under the above head, in which we propose togive a brief digest of so much of the interesting Science of Mineralogy, as sball be of practical utility to the miner and prospector, in his labors and explorations in the field. These papers will be prepared from the latest and best authorities and will embrace the entire range of mineral and metalliferous deposits. We shall not waste the time. of the reader to any extent, by any geaeral remarks not strictly belonging to the subject under consideration, but endearor, to the utmost of our ability, to render these papers a practical manual that shall be especialy useful to the prospector and miner, and at the same time, not entirely devoid of interest and instruction to the general reader.
In order to treat the subject intelligently, however, so that it may be correctly understond by those who have hitherto paid but little or no attention to mineralogy, it will be necessary to give a brief introduction, explanatury of certain terms and conditions, which must be used and referred to. Without such explanations these papers will be of but little comparative value either to the general reader, or to the miner who may now, for the first time, desire to gain an ensight into the science of pactical mineralogy.
introductory.

The primary object of this scieace is the development of miveral bodies; a knowledge of their characters, forms and combinations; also the circumstances and conditions in which they are found, and the substances with which they are combined. This is the practicat object of mineralogy and the point upon which we propose to treat priacipally in these papers.
A development of the nature of minerals, a knowledge of their elements, their properties and uses, constitutes the eoonomical portion of the science, which though highly inter esting and useful to mankind, is not a matter which we propose to discuss to any extent. The miner is directly interested only in the development-the bringing to the surfaceof the minerals of the earth ; their economy and general introduction into the various channels of business, he leaves to those into whose hands he delivers them in their rough state.

We know but comparatively little of the earth beyond the depth which has been reached by mining operations. This depth when compared to the entire bnik of the carth, may be correctly compared to the minute seratching and pia punctures of a coat of varnish on a 12 -inch globe. All beneath is mystery and speculation. Of this we shall treat more at length in fature numbers.
A Mineral is an unorganized body, differing from an organized or living body in its structure, in the manner of its formatian and of its increase or growth. While organized bodies increase by means of their internal organs, which assimilate and retain in the system what is beneficial and reject what is useless, unorganized bodies increase externaly.
A simple mineral substance, as pure gold, silver, etc., may be described as an organized body, presenting an aggregation of lesser particles of the same nature, united by affinity. Every mineral possesses two distinct kinds of charaeter, by one or both of which it may be distinguished from other sabstances. These are termed the external and the chemical characters. 'The former are commonly apparent to the senses, and the latter are those which are developed during the chemical decomposition, which may be accomplished with or without heat. These characters are denominated as follows :-Aspect, or kind of lustre; color; havdness; specific gravity; streak; form; structure; cleavage; surface; tenacity and transparency.
Aspect, or Kino of Lustre, is very important, and is divided into metallic and nou-metallic aspect; they are often blended in the same mineral. Many minerals also possess two distinct kinds of lustre, one externally aud the other internally. The true metallic lustre may always be distinguished from the metallic, pearly-adamantine lustre, by its being always combined with perfect opacity, and by remaining unaltered on the scratched surface.

CoLor is also of considerable importance when combined with metalic aspect. In speaking of color, in connection with minerals, the depth or shade of color should be carefully noted, and the peculiarity of shade expressed as near as possible, by reference to some well known substance.-

The metalic oolors are white, divided into silver and tinwhite; grey, lead-grey and stel-grey; yellow, brass-yellow, bronze-yellow and gold-yellow; black and copper-red.
HARDNESS is one of the most important of mineral characters. There are generally reconed ten degrees of hardness : 1, yields easily to the nail. 2, yields with difficulty to the nail. 3 , seratehes a copper coin, but is also scratched by it. 4, not scratched by copper but, is not hard enough
to seratch ylass, 5 , seratches glass, though with difficulty, to scratch ylass. 5 , scratches glass, though with difficulty,
leaving its powder on it and yields easily to the knife. 6, scratches glass and yields with difficulty to the knife. 7, does not yield to the knife but does to the edge of a file, though with difficuity. 8 and 9 , harder thar flint. 10 cuts glass.
Specific Gratitx - That is, the weight of a body com: pared to some other body of the same size or volume. This latter body is assumed as a standard; this slandard is pure water at a temperature of $60^{\circ}$ Fah. A cubic foot of water weighs $997 \cdot 136$ ounces-usaally taken as 1,000 . A cubic foot of silver weighs 10,000 ounces; therefore we say silver is ten times heavier than water, and its specific gravity is $10 \cdot 0$.
Strear is a very effective character; it signilies the color of powder, produced by drawing or strealing a mineral across a file. The best way to distinguish the streak is to take a fine file, and drawing it once or twice across the mineral, pass it lightly over your finger; when the color will be left thereon, and may be easily noted.
Form is a character, when regular, of the higbest interest, yet of limited utility in the discrimination of minerals.
Stiucture and Cleavage.-The structure of minerals is the mode of aggregation of the particles of which they are composed. Lamellar structure is composed of broad, dis tlact concretions, of about equal length and breadth. "Prismatic, or biaded structure, consists of long and narrow concretions, forming a transition from the lamellar into the fibrous structure. Fibrous structure, consists of fibrous, or very thin and capillary concretions, either straight or curved. Granular structure is composed of minute or small concretions, having a nearly equal length, breadth, and thickness. Compact structure is devoid of any distinct concretions, and appears to consist of one compact mass.
Surfact.- The surface of minerals may be either uneven, granulated, rough, smooth, or streaked : streaked surfaces often arise from a close fibrous structure, or otherwise indicate the direction of cleavage planes.
Tenaciry.-The following are the different degrees of tenacity :-Brille, such as grate under the knife, or fly off in the form of powder when attempted to be cat; and break into powder, when placed on an anvil and struck by the hammer. Sectile, possessed by minerals which yield in a great degree to the knife without noise, the particles remaining on its blade : sectile minerals crush into powder under the hammer, Maleable or ductile, the property posseased by minerals which may be cut by the knife, and which flatten into spangles under the hammer.
Transparenoy.--The following are the degrees of transparency, or transmission of light, as possessed by minerals. 0. Opaque 1. Translucent on the edges. 2. Translucent. 3. Semi-transparent. 4. Transparent.

Dearee of Lustre is distinct from the kind of lustre or aspect of minerals. The degrees of lustre are marked by the following numerals. 0. Dull, devoid of lastre. I. Glimmering. 2. Glistening, or weakly shining. 3. Shining, as rock crystal. 4. Splendent, or strongly shining, as galeпа.

Fracture is a character of minor importance; it is the appearance of the suafaces produced on breaking a mineral in any direction, except in that of its natural joints or clearage planes, which ought to be always smooth, and more or less shining.
Form, Frangiblity, Flextblity, Touch, Solling and Sound, are all terms which are sometimes employed to describe the characteristics of minerals, but ns they are of little importance to the general student we pass them by.
Odour is confined to a very few minerals; some emit naturally a degree of odour, in others it is produced oy breathing on them ; in some by friction, and in others it is developed by heat.
Adeesion to the tovere is a character possessad by such minerals as freely imbibe moisture, and is common to almost all earthy mechanical mixtures and decomposed specinens,
$T_{A S T E}$ is a characteristic properly possessed by such minerale as are soluble in water.
Madertisn is a characterstic of limited application, bat in many cases a very important one. The only metals which attract the magnet, are iron; nickel, and cobalt ; and there are very fer that affect it in their natural state, but many do so alter their exposure to the action of the blow pipe.
Electricitry.-To ascertain whether a mineral possesses this character or not, a small instrument called an electrometer is necessary. Electricity is produced in minerals, either by heat or fiiction. To try if a mineral possesses the property of elecricity, first rub it briskly for a few minutes with a woolen cloth, and then present it to one of the pith balls of the electrometer; or, heat it gently through and do the same.; if in either case it attracts the ball, then it popsesses electricity.
Phosphorescence is a property possessed by some few minerals, of emitting by heat or friction, a faint light. Minerals which become phosphorescent by heat, will almost invariably be found to contain either fluorine, chlorine, plos phoric acid, boracic acid, or the salts of baryta, lime, or zinc. This is however, a very uucertain character, as there are varieties of the same substance in which it can and caur. not be developed.
The chemieal characters of minerals, are the effects proc duced on them by the action of acids and of the blow-pipe of which we shali treat in a separate arlicle wherein we pro pose to give general directions for the use of the blow-pipe
The effects produced on minerals by the action of acids re very inportant. These effects are effervesseence, solu bility, partial solubility producing a gelatinous raass, \&e. 'Th, develop these effects, the mineral sbould be reduced to pow der, and placed in a small test-tube or other vessel, and the acid, either pure or diluted, must be geatly poured over it The application of heat is sometimas necessary, in whicl case a spirit-lamp is made use of, and the mineral and acir supported over it in a test-tube, watch-glass, or small cap. sule of Berlin porcelain, or of platinum, by means of a thit bent wire.
The treatment of minerals by acids will be fully explain ed id its appropriate place.
Morsture in tere Atr.-The atmosphere always containa water. Most people think its presence a misfortune. The! say the atmosphere of California is very healthy because is so diy. This is an error. The air of California has great deal more moisture than that of New England, that is the principal reason for its superior healthfulness in New England the dry air sucks the moisture nut of man's air passages and he has the consumption. If he coulc breathe the moist atmosphere of the Pacific coast, he migh recover. In their influence on consumptives I do not mea to say that the only difference between the Atlantic ani the Pacific coasts, is found in the amount of atmospheri moisture. But I do say that this is one of the most essen tial sanitary differences. A man who, in New England, i ever suffering with dry and cracked skin, has in Californis moist and healthy skin. What is true of the skin is tru of the lining of the lungs, with which the same air is in cor stant contact-the dry air sucks out the moisture and duces disease. All other things being equal the moister air the healthier it is. Of course this law censps to hol whenever the moisture becomes seasible, and the clothing. thereby saturated. [Journal of a Traveler.

An Extensive Mining Cladr.-The Placerville Demu crat speaks of a Mining Company recently formed nes Diamond Springs, which consists of 150 members, wi claim 300 feet each, or about 9 miles of ledge for the entil) company! The company is styled the "Black Quartz Gol. Silver and Copper Co.." and the ledge is pronounced U good judges one of a most promising character.

The Ponger Mill for Reese River is now on its wi, thither, from Pike's Peak. It is an eleven stamp mill, ax will be located near Clifton. Machinery, overland, from t East to the Pacific Slope mines is a new idea.
Messrs Buel \& Dorsey of Clifton, are now on their wi thither, or are already in this city, for the purpose of buyin machinery to take to Reese River. We may soon. expe some practical results from this newly discovered minuing gion,

## MINING AND SCIENTIFIC PRESS.

Mining Iscident. - A few mouths since a gentleman, who ow kepps a restaurant in this city, but who at the time of e Incident narrated below was keeping a similar establishent in sacramento, was accosted in the street, by mather a Hly looking individual, who frankly informed our restau ft kepper that hewas fuet broke, and hungry. Like a od Samaritan, as he is, the dispenser of edibles invited e stranger to make himself at home at his table until ch time as he could get work. He remained with his henactor several weeke and then left for the mines. Some onths afterward the restaurant keeper received from b hands of a stranger, a third party, some certificates of pek in a quartz mine, in payment for his kindness to stran No. 1. The stock was then of but little value, and 3 laid aside for the time. Sometime afterward, having anged his business to this city, and noticing the growing erest in mining here, the restaurant keeper bethought nself of his Sacramento investment, made enquiry as to value, and to his no small astonishment, suddenly found aself in possession of mining property worth $\$ 15,000$. had cast his bread upon the waters and it had returned thim many thousand fold.

## TO MLNERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable heral deposits, other than gold, in almost every section of e State, which have of late been made, it is but reasonato sappose that prospecting even in California, has but If commenced. The simplest and most universal of all taliferous deposits is gold. It rarely occurs in any other Sm than that of "free gold" which is readily discernable to 1 naked eye. An examination of any rock or earth for d is an extremely simple process. If its presence is susfeted in alluvium, the simple washing of that alluvium in a In is an invariable test. If in rock of any description; I rock pounded fine in a mortar and washed, in the same funer as alluvium, will usually expose its gold to the nad eye, if there 18 any there in paying quantity. The only ceptions, are where the gold is contained in iron pyrites, copper pyrites containing also iron. In either of the to latter cases the presence of gold may be readily ascerfoed by placing the pyrites in any suitable vessel and pping the contents at a moderate heat for from four to six hars, with frequent stirrings, by which means the sulphur I be evaporated, and the copper, if any is present, changto a dull red color, and the gold retaining its natural apprance, on subjecting the whole to the usual panning peess, may be readily seen by the naked eye,
Not so with other metals. Silver, copper, zinc, nickel, d many others appear in such a great variety of metallif\&us forms as generally to defy all but the most practical A scientific eye. No description of these ores can be tten which will afford any very important aid to the in-中erienced in making explorations. Alter reading deiptions, however, and carefully examining the specimens derribed, the explorer may go out and search with some depe of confidence and intelligence. A study of the charperistics of the sulphuret ores alone, would lead an exprer to pass over, entirely unnoticed, the nchest varieties the ores known as Chlorides or Hurn Silver, which, from facility with which they nuay be worked, and their usual funess, are generally considered the most valuable of silver 88. There is much reason to believe that this variety of ver ore will be extensively found in all the volcanic repns of this State. So with many other ores. Considering the great difficulty, in the present lack of binet collections, and other means of instruction, to acire a practical minerallogical and geological education in is State, and desirous to aid, to our fullest capacity, the velopment of our mineral resources, we hereby make e offer to miners, prospectors and all others, who in their avels or explorations may come acruss specimens having e appearance of rarity or value, to carefully examine and onounce upon the same, free of charge, as to their charteristics, value, etc., wheuever any such specimen's are ought or sent to this office free of cost to us. We have ready been called upon in many such cases, and we shall all times be willing to give our attention to any sach rehests which may be presented to us.
Our object is to furnish the miners of Califoraia with evy class of information which shall be valuable, to them in
the progress of their calling and in the developent of the mineral resources of the state, and we know of no way in which we can devote a portion of our time roore to the interests of miners than in the manner here proposed. The only equivalent wo ask is that they shall do what they reasonably can to sustain and improve the paper devoted exlusivoly to their interesta.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. Tne ordiunry rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any runusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any utcommon appearanco in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place," and if the canse of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come ander the notice of the California prospector; and we have the promise also, at an early day-probably within a week or two-of a series of articles under the head of "The Mr NER's Laboratory," which will be prepared especially for this paper by one of the most skillful metallurgists on this coast, and which will be found of great value to the mining public.

## SAN FRANCISCO MINING NOTICES.

Assessments upon Mining Stocks have been levied as fol-
Garabaldi.-Assessment of $\$ 1$ per share, levied March 2nd.
Sutro:-Assessment of $\$ 1$ per share, levied Feb. 23, payable March 23.
Silver Quartz Mill Co-Assessment of 5 per cent. levied Feb. 23, payable March 28.
Napoleon (copper.)-Assessments of $\$ 3$ per share levied Mar. 3, payable in 30 days.
Golden Age.-Assessment of one dollar per share levied Feb. 24, payable March 26.
Washoe Gold \& Silver.-An assessment of 2 per cent. in capital stock was levied Feb. 16, payable Apr. 1.

Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Subsoribe,-Are you a miner and not a subscriber to the Mining and Screntific Press? If so, you are an annual loser of many times the price of e year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookistore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?", If so, and you desire to send important information and valuable reading matter, jou can find no paprr that will be read with so much eagerness by them, or one that will convey to them so fall an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollar's for six months, and become patrons of the only mining paper printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we' are anxious to introduce the paper where it is not now known, we will, for the preseat, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one
will wish to discontue the paper after being ai constant reador of it for even that short period.

## Mliniug and Scientific y yrrss.



C. W. M. SMITH and W. B. EWER, ; ; . . . -Proprietors.

Engravings, Electrotypes, eto.
We exocute at this oifice Eugravings nud liturrations on wood, atono,


 hem freto of charge in the Misise and sciestipic lpaze, thun giving the ad-
yantage of a Wifte Circulation thronglont the Pacific Coust in the best Advertising Bledlum to le fousd anthe country.

## To Printers.

As Intrases in one of the mont floursabing and best paying Nemppa per Onlees in the mountains is offored for anle on easy torma. A rare op gortualty is hereby presentud tomy priuter flesirous of extablishing him.
self in a goor businoss in one of the healthest, most thriving and delight. ful mountail towns iu the state. Fur further information enquire at this fice.
mining and scientific press.
THE ONLY MINING, MECHANICL AND SCIENTIPIC Paper on this continent.

## THIRD TEAR: VOIUME NT.-NEW SLRJESI

A now volume of this extensively circulated paper commenced Sept. 11, 1862. It is intended that every number shall ho repleto with information
concerning Mining, sicientific, Mechanical and Industrial pursuits, together with soveral original eugraviugb, of new inventions, etc., prepared exprossly for its columns.
This paper is devoted to the above purnoses, tngether with the intorests that may be of interest to the reader : and it is the intention of ino proprie tor to sjare no pains or expense in making it equal in iuterest and valuable aformation to any paper yet publisbed.

## The Mining Interest!

Will and it of great value, as it will contain all the news anpertaining to Mining the prices and sales of Mining Stocks, Dow inventinns of Machinery adap+ed to that purpose, and of everything generally that may be of service to the Miner.

## The Inventor I

Will 6nd it an excellent medrum for the purpose of bringing his infention into notice, of nsecrtaining the progress of invention in this and other in oltaining his patent, the preprictor having had great experience as a pateut Agent, together wib facilitios at Washington that enable bim to ob ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly benefited by its porusal, as each number will contann seva eral oripioal engravings of new machines and inventions, together withy
large amount of reading matter appertaining thereto. Wo are constantle receiving tho best scientific journals from all quarters, from which wr shall continue to extract whatever may be of bencfit or intereat to oureaders.

To Chemists, Architects, Millwrights and Farmers ! This jourual will be juvaluable. All new discoveries in Chemistry will be
given, and a large amount of information of great service to Architects and Millwrights will be found in our columns. The Farmers and Planters will pot be neglected, engravings will be given of agricultural implements, and tho farming interest genorally will be amply diacussed.

## Terms.

To mall subscribers:-Four Dollars per annum. Club Rates.
Five Copies for Six Months, $\$ 8$.
Ten Copies for Six Months, \$16.
Ten Copies for Twelve Months, $\$ 30$.
Ten Copies for Twelve lionths, \$30.
Trenty Copics for Twelvo Months, $\$ 56$.
For all clubs of Twenty and over, the yearly suhscribtina is only $\$ 280$ Names cau be sent in at clifferent times and from different Post-olfices
Specimen copies will be sent gratis to any part of the country.

EWER \& SMXHE, Publishers,
Room 27, (formerly) U. S. Court Building, Corner of Washingten and Ba
tery streota, Sau Francisco.

## Our Mint, its Rules, Charges and Oporations.

For parting silver from gold when gold
is below $300-1000$ ths. fine.
"
3ets per oz.
from 30-100ths. $10750-1000$ ths fine. $7 \mathrm{cts}^{\circ 1}$ " oz. $750-1000$ ths to $950-100$ ths " 14 ets " " Depostyg Silver Bullion-Purchabes.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of gold 1 to 300 3cts. per oz. gross weight 301 " 500 , 7cts,

## Defosits for Fine Bars

$\$ 1$ 16-4-11ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained $1 / 6$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.
\$1 16-4-11ths. per standard oz. $1 / 2$ per ct. groas value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
\$116-4-11ths. cents per stadard oz. 1/2 per ct. gross value of deposit for making bars.

## PROGRESS OF THE MINING INTEREST.

We still continue our notes of Mining Progress. There appears to be no diminution of interest in miniog operations, but rather al increase, and a more general desire than ever to invest. New discoveries and new developments in old workings are constantly being made. In the excitement consequent upon such a state of things it is gratifying to notice a growing dieposition, among out side operators, to observe more caution in their investments. One of the first things to be required by that class of buyers is that the stock which they purchase should be controlled by a regularly incorporated company, whose officers and chief managers should be well known as men of integrity. Care also should be taken to learn the actual condition of the mine, the extent to which it has been developed, the character of its tille, whether disputed or perfect, etc. There is no need to be rash or in haste to invest. Opportunities for good investment will increase monthly, and yearly for many a generation to come. Quartz mining is very different from placer mining; for while the latter may soon be skimmed over, and the richest workings exhausted, the former will be likely to improve for decades if not for centuries. The cream of the quartz mining business in California and the adjacent territories is yet far in the fature.
virginia district.
The Cole is running a new tunnel to strike the lode at a depth of 575 feet. They are already in 150 feet. This company, we believe, has the deepest shaft in the Territory. Their main shaft reached a depth of 365 feet some two or three months ago, since which time we presume the work has still been continued uponit. Some very exc. llent sil ver bearing rock was taken from this shaft at a depth of 340 feet. The next deepest shaft in the Territory is on the Hale \& Norcross ground, and is only some 40 or 50 feet less than the Cole

The Dane is taking out ore from a 20 foot shaft.
The Dunn has recently struck very good rock, which, at last accounts was improving as the work progressed.

- The Scorpion have driven their tunnel to a distance of 625 feet, and are expecting to reach their lode inside of 100 more. The depth at which they will strike it will afford a good test of its value.
The Charles Caney have a good vein in their engine shaft at a depth of 56 feet. They have a 25 -horse power engine now on the ground and in precess of erection.


## gOLD HILL.

Very interesting and important developments have been for some time in progress in and about Gold Hill, and a large share of attention is being torned in that direction; every day, almost, brings something nesy from that locality.
The Belcher, (which was noticed in our Washoe correspondence of last week.) in consequence of new developments, has advanced within the two weeks past from $\$ 50$ to $\$ 450$ per foot. The mine, at last accounts, wore a most promising aspect for even larger advances.
The Kellogg, Bail \& Co's clain of 85 feet and "Bob. Apples" interest of 75 fret, the two next adjoining the Belcher will lose none of their value by reason of this "strike." The latter, indeed, is already improving in appearance, at the mine.
The Oferman Co., the third from the Belcher, compriaing 1200 feet, has united with the Apple Co. in sinking a joint shaft on their dividing line, which, it is mntended shall be equal in workmas ship to anything of the kiod in the territory. It will be 12 by 5 . feet in the c'ear, lined with 3 -in plank, and constructed in three compartments-two for cars, and the other for the pump ; this shaft has reached a depth of 100 feet, and is intended to connect with the Over man tunnel, which is in 750 feet, and will not be completed much before the shaft is ready for it; the tunnel will drain the ledge 234 feet below the surface. Mr. Apple was offered $\$ 600$ a foot last week, and the Overman was held at $\$ 80$.

The La Motte made a rich strike in their lower tunnel, on the 23 d ult, in consequence of which their stock suddenly advanced from $\$ 15$ to $\$ 70$ per foot. This Company's tannel was only recently commenced, and rans in on the length of the ledge, from Bower's ravine, at Gold Hill; it is said
the lead is thirty feet wide and the pay streak recently struck about twelve inches wide. There are 1200 feet in the claim The Company was incorporated on the 14th of March last.
The Golden Gate.-I'he shaft of the Golden Gate Company, on the divide between Virginia and God Hill, bas reached a depth of 140 feet, and namerous small spurs, or feeders to the ledge have been cut through, which much resemble the Gould \& Curry. What was supposed to be the main lead was passed through some time ago; it was about twenty feet wide, but contained no mineral of any consequence. The shalt will be continued to a depth of 300 feet, and a drift run to the ledge, when the share hulders will be able to arrive at a fair approximation to the value of their mine.

## devil's gate district.

The Alamo are taking out rock, averaging about $\$ 50$, from a 60 -foot shaft. Their rock is crushed by contract.
South Hadley.-This Company has struck the lode at a depth of 60 feet.

## FLOWERY DISTRICT.

The Rogers, one of the oldest locations in this district, have run their tunnel 560 feet, and are now putting down an additinnal shaft. This company has a steam mill in operation, with 10 stamps, running upon custom work.

## esmeralda.

The work of development is still progressing finely in this region. Tunuels are being run and projected in every direction, where surface indications point to rich minerals below. Tunnel Enterprises, indeed, seem to be a feature in Esmeralda and evince the confidence which holders have in the "feet" that they have located.
We have heretofore, through our Esujeralda correspondence, given a pretty full account of most of these undertakings. A new enterprise of this description has recently been undertaken which is quite fully described in the Star of the 25 th ult, from which we condense:

The Stanford Tunnel just being commenced is one of the best mining enterprises ever started in this District. It is located on the western side of Silver Hill and about a quarter of a mile above the American. The Company are composed of staunch business men in Sacramento and San Francisco as well as old experienced quartz miners here.
The President of the Company is Governor Stanford, Secretary, Newton Booth, of Sacramento, where the trans fer office is kept.
The Tunnel when completed will be three thousand feet in length and will embrace all the blind ledges for two hundred feet on each side of it. A handsome cut bas been opened from eight to twelve feet wide and fifty in length; the present contract is being completed under the Superintendency of Mr. A. E. Libby.

The company have a good location for a large mill, the erection of which will soon be commenced. The Tunnel will strike the Utah and all those rich ledges which cluster and run together on that side of the hill, reaching them at a depth of eight handred feet, together with all the rich blind lenges which they are bound to strike. They are already taking out rich boulders which will pay for crushing, and as fast as they take them out they break them to pieces and pile them up. Success to the Stauford Tunnel.

New Roce Drilling Machine.-Think of using diamonds to cut rocks with! But an instrument for boring into hard rock, made out of a tabe furnished with a circular cutter of rongh diamond, is now being employed in France It is caused to revolve, and, as it enters the stone, the cutter scoops out a cyinder, which is afterward easily token out of the tube. Holes in hard granite, for blasting purposes, two inches in diameter and four feet deep, are thereby bored in one hour. This would require two day's work in the ordinary way. The diamonds, when examined through a magnifying glass, do not look at all injured.

Mount Shasta O'ertopped.-Mount Shasta has hitherto been considered the highest peak in the United States. A recent measurment of Long's Peak, in Colorado, however, proves that mountain to be 14,470 feet above the level of the sea, or tharty feet higher than Mount Shasta.

A watce factory is in successful operation at Petaluma.

Mineralogical.-We would call the especial attention of such of our readers as are not acquainted with Mineralogy, but who desire to obtain so much knowledge of that interesring science as may be requisite to enable them to pursue, with a fair degree of confidence, the ordinary service of prospecting for minerals, to the series of articles which we have cormenced in another column, under the head of the "Miners' Laboratory." These articles will be found very valuable to all miners, and will afford sufficient instruction in the general principles of mineralogy, including the use of the blow-pipe, and qualitative assaying, to enable any person to arrive at an approxinately correct conclusion with
regard to the general characteristics of sach minerals. The number which we give this week may seem devoid of interest. or special value, but its careful study is indispensible to any proficiency in this department of knowledge.
We have been induced to prepare and publish this series of articles in consequence of the absolute lack of any books of instruction on this coast from which the information we prepare may he obtained. Miners will do well 10 either file the papers containing them, or cut out the articles and file them away as scraps. The series will bo regularly numbered.

## GENERAL MIINING STOCK REPORT.

At the San Francisco Mining Stock Board,<br>For the week ending May $2,1863$.



## REMARES

Quite a large amount of business bas been done in the miniog share market during the past week, and genorally at improved rates. The advances have mostly been based upon actual developments and improvements at the mines. Several instances of important fuctuations have beon noticed, produced mostly through speculative operations.
Ophir and Gould \& Curry bave both been inactive during the weels. The ormer has remuined quite firm at about last weeks quotations, while the latter has adranced about $\$ 00$, remaining 6 rm at $\$ 3600$. We neglected in our last to notice the payment of auother monthly dividend of \$100 to the foot by the Gould \& Curry.
The chief transactions of the weck in Virginia Stocks have been confined to the Chollar, Daney, Burning Moscow and North Potosi.
The Chollar has been steadily advancing for the lart two weeks. During that time it bita gone up from the depressed figure of $\$ 56010 \$ 505$.
The Daney still continues active, but at lower rates than the week pro-

Irun from the mall have not boen quite so fuyorable as those of provious Burniog Moscow has been eonslderably dealt in at improvat rates. Wo rote as bigh as $\$ 17 \%$ : Cish and F2lC o 30 .
North potost has boun moro active than usual, though at slighty doproch. ed rates.
Poloal th firm at couslderable advance, with myo buyera than sollors. Mount Hope, aypialag the Putost in begianing to attract consulerabie at-
 Charles Cancy has decitnod slifthty and is lens nctivo. Tho Company has grod vein at a depth of oo feet, and steam power about goling tato opersEa Darado ha a been more actire than asual during the week nt largely adhooms rutea, cauned by

## huydourt hid reas aiver.

Zurnboldt and Rimese River Strctss are loginuing to attract attention in this hurket. Sheba is held firm at about $\$ 500$, with but little in the market. D
 lef knowa in this market are the Sheba, No Soto, Schuylsill, Bea Frank
n, Goldeu Ago Serlea, Hoonlight, Hagon Charha Serlen, Peerless, Roso n, Goldeu Ago Surlea, Joonlight, Jingon Charua serten, Peoriess, Roso
hitman abu Fort Pitt. There ure donbeless others, porhaps more valua hitman which have not yot generally becumo much knowa bere.
From Reexe River we have most favorable reports, and important results ro conddently leoked for, an seou as the mills under contract and to cous emplation abali be put in motion. The Govornor Soymour, Unlon, Hurfor and Honost 3fieer havn each n a quantity of ore now on its way to thle ity to he tested here by machinery, in working quautities. Assays from hesc ctaims are high; but the only satinfactory results are those obtained rom regular working machinery. Wo shall a wait thoso reautu

## sergraida

The Wide Weat has not yet recovered from the depression causor by the to uarxpected agxessment, although it is said the Company's milt is work g with moat satisfuctory results. Three hundred pounds of unretorted waigam are reported as the result of one wcek's run of ten atamps. Antelope is improving, also the Real del Monte.
Silver tull continues active at matorially fmproved rates. We quote toay as high as $\$ 75$ cash, 14 advance on the bighest rates of last week Josephine and Willow Springs in the Coso district still remain active at proviour quntations.

## TEE COPPER INTBREST

Is still improviag in favor and enhaocing in valne. New "Strikes" and mportant "developments are daily reportad. Indeed, on this uido of the hountnins, copper is a decided favorite over both gold and silver. Its valin "fect," however is not yet fully appreciated among speculators on Lontgomery street. The mines exist, nevertheless, and the work of de-
elopment in being pusted with a vigor never excelted in any previous aning operations on thes coart.

## TRANSACTIONS IN SHARES, FOR THE WEEK.

## NEVADA STOCKS.

Lady Bryan-10 at \$11; 50 at $\$ 12$.
Buraside- 10 bat $31 ; 20$ at $30 ; 10$ at $31 ; 5$ at $33 ; 15$ at $331 / 2$. Norton-10 at $26 \frac{1}{2} ; 25$ at $30 ; 10$ at $33 ; 10$ at $32 ; 30$ at $35 ; 10$ at $35 \frac{1}{2} ; 10$ at $341 / \frac{1}{2}$.
Adriatic- 40 at $101 / 2 ; 100$ at 12 b $30 \mathrm{~d} ; 40$ at $101 / 2 ; 871 / 2$ at 11 b 30 d .
Reese River-20 at 5; 12 at 43/2; 100 at 41/2; 20 at 41/2; 25 at 4; 100 at 3.
Crdar Hill Tunnel-20 at $43 / 4 ; 20$ at $53 / 4$.
Red, White, and Blue- 53 at $17 ; 156$ at 20 b 30 d; 20 at $18 ; 20$ at 20 b $30 \mathrm{~d} ; 20$ at 19.
Governor Nye-40 at 12; 20 at $12 ; 35$ at 12; 15 at $121 / 2$.
Union, (Gold Hill)-5 at 55.
Sierra Nevada-5 at 65; 5 at 70 b 30 d; 5 at 65 ; 10 at $62 \frac{1}{2}$.
De Soto-5 at $1171 / 2 ; 5$ at $115 ; 10$ at $117 ; 9$ at 115.
Bajazette-10 at 25; 30 at 25.
Best \& Belcher-5 at 400.
Mount Hope-5 at $321 / 2$. $\}$ Milton-10 at 85 b 30 .
Overman-25 at 200. $\uparrow$ Empire-10 at 40 .
Federal Hope- 50 at $11 / 2 ; 100$ at $15 / 8 ; 100$ at $11 / 4$
Mount Hope- 25 at $40 ; 50$ at 36 b $30 \mathrm{~d} ; 10$ at $45 ; 10$ at $471 / 2 ; 10$ at $48 ; 5$ at $411 \frac{1}{2} ; 20$ at $45 ; 15$ at $46 ; 10$ at 50 b 30 . Utica-20 at 12. $\}$ Cole-20 at 14.
Savage-3 at 2000.
Chollar- 20 at 565 b $30 ; 20$ at $40750 ; 20$ at 560 b 30 ; 20 at $520 ; 20$ at $516: 20$ at $420 ; 60$ at 560 b $30 ; 20$ at 525 ; 40 at $525 ; 21$ at $500: 13$ at $520 ; 68$ at 475.
Hale \& Norcross-10 at 950 b $30 ; 8$ at $925 ; 10$ at 900 R. $\mathbf{W}$.

Daney-4 at 390; 20 at 430 b 25; 44 at $400 ; 8$ at 405 : 40 at $402 ; 20$ at 430 b $25 ; 60$ at 425 b $30 ; 20$ at $405 ; 56$ at 430 $\mathrm{b} 30 ; 8$ at $38750 ; 22$ at $420 \mathrm{~b} 30 ; 60$ at $425 \mathrm{~b} 30 ; 20$ at 400 ; 20 at $415 \mathrm{~b} 15 ; 20$ at $425 \mathrm{~b} 30 ; 172$ at $400 \mathrm{~b} 30 ; 40$ at $400 ; 20$ at $3971 / 2$.

Burning Moscow-20 at 170;10 at $17750 ; 4$ at $175 ; 10$ at $210 \mathrm{~b} 30 ; 10$ at $170 ; 10$ at $190 \mathrm{~b} 30 ; 10$ at $178 ; 30$ at 175 ; 10 at 1 15.

Clias Cancy- 3 at $140 ; 25$ at 145 b $30 ; 30$ at 145 b 30 .
Nurth Potosi-10at 40; 5at $4250 ; 10$ at 3.); 10 at 36 ; at $39 ; 34$ at $40 ; 35$ at 40 ; 40 at 43 b $30 ; 10$ at $40 ; 50$ at $421 / 2$ b 30 d.

El Dorado-5 at 140 b $30 ; 40$ at $120 ; 10$ at $145 ; 5$ at 140. Meredith-25 at 40.$\}$ Boston- 50 at $41 / 2 ; 50$ at $5 \frac{1}{2}$.
S. W. Ex. Sunbeam- 50 ut 4 .

## PMMERALDA STOCRS.

South Utah-5 at $35 ; 5$ at $39 ; 10$ at 45 .
Wide West-2 at $397, \frac{1}{2} ; 10$ at $400 \mathrm{~b} 30 ; 10$ at 395 b 30 ; 10 at 4100 b $30 ; 5$ at $375 ; 25$ at 400 b 3010 at 380 .
Pond-5 at $90 \mathrm{~b} 30 ; 20$ at $75 ; 5$ at $65 ; 5$ at $67 ; 10$ at 65 ; 18 at 60 ;

Falls of Clyde-25 at $10 ; 30$ at $10 ; 25$ at $10 \frac{1}{2}$.
Garabaldi-20 at 32 1é 25 at 29.

Banboo-3 at 46; 2 at
Bodie, No. $1-100$ at 11 .
Antelope-10 at $330 ; 3$ at $340 ; 10$ at 345.
Esineralda 13 at $42 ; 50$ at $47 ; 5$ at $47 \frac{1 / 2}{2} ; 30$ at $48 ; 75$ at 48 b 30; 10 at 47 b 30 .
lst N. Ex. Esmeralda 25 at $5 ; 50$ at $6 ; 25$ at $61 /$
Silver Hill- 30 at $61 ; 6$ at 65 b $30 ; 80$ at 75 , 140 at 70; 10 at $77 ; 10$ at $75 ; 35$ at $70 ; 7$ at $70 ; 5$ at $70 ; 60$ at $671 / 2$. Utah-10 at 110 b $30 ; 5$ at 100 .
Lake View 50 at $2 ; 100$ at $23 / 4 ; b 30 ; 100$ at $21 / 4 ; 50$ at 2 . Sunbeam-20 at 51/2; 40 at $5 ; 40$ at $16 ; 30$ at 15 .
Mary Anu-20 at 45 . $\}$ Wisconsin-5 at 22.
Lucerne-20 at 8. \} Mounl Bullion-50 at 3; 20 at $21 / 2$. coso stocks.
Josephine-5 at $\$ 27 ; 25$ at $\$ 22 ; 25$ at $\$ 23 ; 10$ at $\$ 241 / 2 ;$ 20 at $233 \frac{1}{4} ; 20$ at $23 \frac{1}{2} ; 10$ at $24 ; 25$ at $231 / 2 ; 10$ at $24 ; 10$ at $26 ; 5$ at $27 ; 13$ at 24 .
Willow Springs-10 at 181/4; 40 at $19 ; 10$ at $17 ; 20$ at $151 / 2 ; 40$ at $14 ; 50$ at 15 b $30 ; 10$ at $13 ; 5$ at $121 / 2$. calfrornia stocks.
Melones-5 at $\$ 125 ; 8$ at $1271 / 2 ; 50$ at 135 b 30. COPPER STOCKS.
Napoleon-4 at $\$ 80 ; 5$ at $100 ; 10$ at 75 b 30 ;

## virginia city stocik hist.

Corrected for the Mining and Scientific Pruss, Friday, April So, $\mathbf{1 8 6 3}$.


## WASHOE STOCK REMARES.

$$
\text { For the week ending April } 30,1863 .
$$

There has been no lack of excitement in the Stock Barket, during the past week. A general improvement has been noticed in most Stocks, and important advances in a few. Gold Hill still presents the ohiof feld of attruction. The developments in that quarter are of a mnst exciting character, and the tendency of all Gold Hill Stocks of Betablished value City. We have full reports of th: market to Monday Eveping.
The Fnterprlse of Monday, April 27 th, remarks as follows of the Leon and Koh-j-noor:
The Lean and Koh-i-noor, the latter claiming what is known as the Belcher ledge, have been the rage to-day among the Gold Hill claims. The

Leon ajjoins the Beteher ledge on the north, and its advance in the markot bas been unprecedently rajld, even iu this combtry of fuctuatlons. Six weels apo it could have been bught for $\$ 1$ jer foot: four days since it When

Uwerman has mot with a materindadvance durlug tho wedk. Stareing at Stô © 60 on Munday, it reachel 875 on Wrednesday, atvanced to $\$ 100$ on Thursday aud was quoted at \$150 to 165 on Monday April 27 th.
Belcher is still in high favour. This sitock hase gone up within about two weeks from $\$ 50$ to 8560 and $\$ 300$. The developmenta in this mine are of the moat grutifying character. Were the ledge from which the ore is now taken through the works of this company without dispute, it would very evon cominra and a first-clasy price in the market There was some furthe exditement touching the Beleher, on Thursday last and it may be quoted at $\$ 000$ per fuol.
Bultion was largely deall to tho firat of the week to fill extensive ordorno On Thuraday it had advauced somewhat, and wats quoted at $\$ \$ 5,30 \mathrm{ds}$. On Monday last it was atII in Hpely demund at $\$ 55$ (9) 60 . Our Washoe Pony Roport, duted Thuraday last, quetes a still further advance to $\$ 85$.
The Princess has been quite a sharer in the avimation of the past few days. It was only fu quiet requeet at the commencement of the week, some uneasiaess being felt with regird to its suil with the Yellow Jackel. On Thursday tho report of a probablo compromise with their sult, added to the favourable appearauce of the mlae, improved the feeling with regard to it, and on Smaday we flud it quoted at \$15 @ 50 . Ou Wodnesday last it had advanced $\$ 60$ @ 65 .
The Union has a ko been a sharer io the excitement. It was sold on the murning of Monday at $\$ 25$ to 27 . Exciting reports coming in from the mive it was soon in lively request at $\$ 45$ @ 30 , at which figures it closed the week.
Yellow Jacket has experiencel considerable fuctuation. It commenced the week at $\$ 376$, and gradualiy advanced to $\$ 525$ (a) $\$ 530$ on Thursday nad closed at $\$ 475$ (3) 405. Our Pony Report of last Thursday leaves ic at $\$ 510$. The tranaactious have been light.
The El Dorado which had been quiet during the first of the week began to come in for a considerable share of attention with the fadications of a dear approach to the lead in their lower tunnel. On Saturday it wan quite lively at $\$ 75$ (3) 80. On sfonday last they struck their ledge, and holders were stiff at a largo advanco over previous quotations. Our Pony Report of Thursday quotes it at $\$ 130$ © 140-au evidence of a good ledgeat that depth.
The Birdsall, adjosing the EI Dorado on the south, was materially influcoced by the advance of the latter, and is tending rapidly upward. It was quoted on Monday al $\$ 65$ @ 70, with IIttle In market. This is an advauce of $\$ 25$ over previous quotatioas.
Belvidere has advanced within the past week from $\$ 20$ to 65 , probably thrnugh sympathy with the Chollar and Potosi.
Sacramento, which was lanpuishing during the woek previous, rallied on Monday last, add was quoted at an advance of $\$ 2 / 23$ (a) 4.
Badjazet \& Golden Era has lluctuated greally during the week. It was considerably dealt in on Thursday, opening at $\$ 30$, it advanced to $\$ 45$ (6) 60 and declined at night to $\$ 30$ (9) 35 . It was atill declining on Monday and now remains at previous quotations.
Gold Hill, Nos. 1, 2 \& 3, were iu bith demand on Monday. On Tues day they were quoted as follows:-No. 1, $\$ 525$ ig 650 ; No. 2, \$350 (3) 875 ; No. $3, \$ 175$ (3) 200 and No. 4, at $\$ 160 \ln 175$.

We refer to our stuck list and Wishou letter for further and later infor. mation by Pony.

Virginia City, Thursday, April 30, 1863. This disposition manifested ou the pert of capitalists to invest in Washoe Stecks during the past week has been unparalieled in the history of this country. Even the wild faror of the spring of sixty preseuted less activity in Nevads stocks than the present weak. Howover, oporations are made with a greater degree of caution and more gencral surety of success. The developments contlaually being brought to lightare of such character as would secm to warrant almost any reasonable invertment. The oro haisen from the Kolu-i-noor or Belcher is quite equal to that of the Ophir or Gould \& Curry aid the ledge appears not less formiduble.

ESMERALDA STOCK LIST.


## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO.

竍

## MINING AND SCIENTIFIC PRESS.

## Voloanio Smelting Furnace.     Brantaun's Buildug, Moutgomery sereet. <br> The time required tor reducing ores by this Furnace trom threw tweight hrours, annl the nmuunt of fuel onty trom three tuelght hrours, and the nmunt of fuel onl He-tenth as much us is colutunied by uther juruceses. <br> The process of condepsation is applied to thin Furnace bleh uavatily escape in a volatie form. <br> athation the trupurtanter rubulta oblationd by the pro <br> Partien wiahing will bo nilowed to erect a triat Furhee uf a cunacty for minelthat vie ton of uro ur mure, on  

New Style of Lady's Buckle. . BOMM, INVENTOL A HATENTEF


 The isvontion havitg been carafully exumined at the
 excelts ull other buehels io
Usefulnesy, Streagth and Appemzunce.
The Public is reapectrully invited to eall and exumino Is Bucislo at the Jewelry bistatlinlmeat

JHAVHESAA \& LEYY,

 118 I strich, sacranamio.
Agents for ibu J'ateutece.
Every Bucklo sold will be guarantred as h1, itn sitength
d. Burubility. d Durability.

LEANDER RANSOM, Civil Fingineer AND
SURVEYOR,
Taving been connected with the public works If the State of Olio for 20 years, and the public urveys of the State of Califoruia for 7 years. ALSO
STATE LOCATING AGENT.
ADd as such having the sale of 00,000 A.CRES OF STATE SCHOOL LANDS,
At the low price or $\$ 1,95$ per Acre.
Terms-Twenty por cent in cash aud the balanee OFFICE: Secnud duor of Express Bualding, N. E. cor 1er of Moutgomery aud California streots. oct 3 m

HAYNES \& LAWTON mpoonras and dencres sis
CROOKERY, GLaSS Ware,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery, CIOCKS ,
Silver Plated and Britania Ware, ETC., ETC., ETC.

NO. 516 SANSOME STREET, [CORNER OF MERCHANT,]

MyERS\& DAGGETTM
Mining and Stock Exchango,
Mining Slocks of All Finuls Bought © Soll.
 -* Aletracts ufl mien Furtubled, Eitc.

FREHERIGK MANSELL, MECHANICAL \& ARCHITECTURAG DRAUGHTSMAN ,
No. 4ida Culifurutu street, corver of Leidsdort.
Drawling of 3tonkis mide for partien applying for patente ut Washingtu or Landun. martis mas

## A. ROMAN \& Co.,

Book Establishment
417 and 410 Montgomery street, SAN FRANCISCO.
Orders reapeetfuly solicited and pronaptly attended to. Truatise on Motallurgy. Comprixing Mining and Gen Erat wal Particular NuLallargicul Oparationa, Litc.
Ey Frederick Overmau. Etc. By Vrederick Overinam.
Manuif ot Mletallargy, or A pructical Creatise on the
corits if Mhining und Metaflurgy, or Facte and Mem-


 Pigsent on she Clu-numery atd Mming of Cupper. Practicul Miner,h Asuy ligg and Mining. Overman
Gind Miung arht ARMy Gind Minmgatht danylag; by Phipth, by Eitursmith. Assugers' 'iudtr; or J'ractical directiuns to Assayers, Jihersind smolurs.
ifver Ures ,ums ilver Mines, ly Pro. Blako.
 Werbach's hechranics of Mrehinery und Eugincering

Together with many oth.. works in this DO. Bowlis Importul wiar ane A ROMAN \& Co 417 \& 419 Moatoomerv street-

READ THIS:
Coal, OIL EXPLUAIUN.-ON SATURDAY EVENING, eet Hulnso in prewring coal oil from wae con to another, hus wite imprudently ayproached with a liglited candle and the vil exploded. Siss. Brewster's urms were badly
burned, as were also the hushind's hinde. Huwever', he succieded in mastering the tames, aud preventing worse cousequences -[Evening Bulletin, Aug. 4.

## THEN THIS!

Comet Illumitating Oil !
Manufactured expressly for Stanford Bro. inis popliar
Brand of Kerosene Ia warravted free from Camphene, Petroleum, or any
other explosive material, and is the BEST FAMILY OLLIN THE MARKFT. STANFORD BROTHERS, Nus. 121,123 and 125 Califr"nia street

3ur Beadftung furr ©rrfinder.
Erfinber, weldie nidgt mit ber englifdjen Spradje betamt find, fömen ibre Mitthungencil in ber beutfdien Spradje madien Stizzenuon Erfiniungen mitfurgen, Deutlidy gejdriebenen Scidjreibuagen beliebe man zu aboreffiren an.
J. SILVERSMITH, Exebange Building, Roon 23.

## Gird's Budding Knife,

$T$ IEE ATTENTION OF FARMERS, HORTICCLTURISTS
1 and Cutlers, or mavuricturers of Horticulterrul Implenents, arc relerred wo the above invention. For
description and engraviag see MinNo and Sotenmio State, Terrritory and workshop rights for sale at reasonable pricus. Publishers of sining \& Scientite PRRss,

Address, | sepl-sm $\quad \begin{array}{c}\text { (Ageut for Pateutee, } \\ \text { San Francisco }\end{array}$ |
| :---: |

## SQUARZA'S PUNCH.

Wrotigate AND RETAM,

No. 44 Leideadorf st, near Sacramento

The Occidental Hotel is now
Open for the Reception of Guests.
$T$ His horse idis alt The Moner mprove



News stand,
CABINET FOR MINERALS;
A Branch Telegraph once,
Conneeting with all the liner throughoutho country. LEWIS LFLAND \& CU.
San Francisen, Jan. 18t, 1863
John R. Sims,


Oregon atreet, hetweeu Frishington and Davis and Fron and Jackxon streels, Sas Frascisco.
Manafacturers or Fire Proof Doors and silutters, Bunk Vaults, Gratiog, Ciemetary Ruil-
All meders from the interior Urecon, Washiopton Treritory, Vancouver's Isfand, British (whumbaa, or auy phet dianateh.

Mr. Sims Apprechates the Past Ilbernl putronage of his iriends, and trusts that he may be future.
For the Informition of Strangers he wulld pay that he feels coufdent that his experionce in his paticular culling is surpassed by none on ry town in this slate, Urugion, alko Victoria and the Sancwich Litauds, and to bu seen on some of the best build iugs us sian Fraucisuo. fully attash. A large ussortmeat of secoerd baud silutters for sale at low rates.

## To Mill Owners.

Wanted, by a persun fully competent to the position, a situation as Mining Superintendens in a Gold or Copper
Siue. The alylicint wis eng.iged for about oight years as Supermatendent of Copper Minitag Works in Cornwall and has acted in the same expacity in Gold Mines in this Sate for tho past seven years. Ho has had much expeience, in Cornwall, us an Assayer, a Machinest,
re He can give umple lestimonies as to his capacity for the powition he suels.
Apply at this Office.

## W. T. \& J. GARRATT ${ }_{3}$

Gity Brass and Bell Founders

B and Lift Pumps, Church and Steamboat Bells, Tay
cra and Hund Bells and Gongs, Hose and all other, joints
Grugecucks, Cy linder cocks, oil Glubes, Stenm Whistles
Gunge cocks, Cylinder cocke, oil Gltobes, stenm Whistles
HYDRAULIC HIPES aul NOZZLES for MINING PUR
losts, Iron stean pipe furuished with Girting a, do rat's Patent Improved Jourval Metal.

## SQUARZA'S PUNCH

## FIRST PREMIUM

t the sacramento agricultural state fatr FOR 1862
ALSO; FLRST PREMTUD
At the San Franeisco Bay District Agricultural Fair, 1862
Manupactory, wholesale afd retait,
No. 44 Leidsdorif street,
Opposite the What Cheer House, San Francisco.

## LATEST IMPROVEAENT

in Ladies' Buckles.


 ore made. Therr simulicity, commodiousness, and beaty render then theinost useful as well as ornamental trinkels. particulurs call at or addreas, FREDERIK REICHEL, Manufacturing Jeweter, 620 Morchant street, sin Francigco

GrEATREDUCTION in PRICES.

STANFORD BROTHERS, 121,123 and 125 California street,
Keep the Largest Slock of all Kinds of

## Lamp Stock

And will Sell Cheaper than any other
Houge in this state
Lamps, Chimege,
Wices, Campiring,
Burning Fluid,
Alcorol, Coal, Oif
Turpentine, Kerosene Oil,

## COMET ILLUMICATING OH,

Sperm Oil, Lard Oil,
Machinery Oth,
Rapt Seed Oil,
China Nut Oil,
Pular Oif,
Linseed Oil, Raw and Boiled,
Shark's Oil,
Neat's Foot OIL,
Tanners OtL, Etc:
Our customers in particular, sud the country trade generalit, are requasted to ascertain our prices before purrates thay they can neord to, as we wil sell at less

## 50 lbs. MARINE AND

Eire-Proof Paint,
Manufactured by the pacific metallurgical.
M Works in this city, tor Hulls and Decks of Vessole, nom ground Sliueral Rock contains Ar seaic, Conper, $\mathrm{Li}^{-}$ tharge aud six ather Minerals. When used on the Decks
or Buttems of snips, it is equal to a coat or Stoun end or Buthms of shins, it is equal to a coat of Stoue, and
quite equal to Copper, no worms will ever offect it, and cheaper than any other pajint.

## DLRECTIONS:

For Decks of Ships, use two parts Mineral Paint, one part White Lead, mixwith Linseed Uil For Buttoms of Vessels, uso oue part ground sulphar turee parts anineral Paiut, mix wilh coal Tar and aphly For sule by all Ship Chandlers and Tradosmen, in bozea of 50 lts , each, or by the P'acíce Metallurgical Works.

25 POUNDS FIRE-PROON PANNT,
When used on Rooff, Bulldiaga, or Fencee, it is equas o coveriog them with a coat of Shane, beng perfectiy Fire Proof, and coasting less than any paint, DIRECTIONS: HOUSE:-Mix thr ce parts. Mineral Paint with one par
white lead, thin with Liusset oil: if a lighter color is white lead, , hin with Lilussed oil: if a ligater color is
wanted, mix less paint, more lead. Rudf:-Five yarta of Mineral Paint, one part white
Lead; mix with Linseed oil. Put in thick on a tin Roof Lead; mix with Linseed oil. Put in thick on a tin Roo
as one coat when properly appliedwill last Lhree yeara. as one cout when properly appliedwill last hree years.
G. T. Forque, Superintendent

WORKS, North Beach ; Office, 318 CaliKornia sto, Smn Francisco.

## WRIGHTYS PICKS.

JOHN WRIGHT, of Sacramento, has established himself in San Francisco for the manufacture of every deacription of 1 ICKS, of the best materinl, at reduced prices. Pics Eysy of the beetiron furnisbed in any quan tity, at luw rates Orders from the country promptly atteaded to. N. B. - None genuine ubless stamped with my name. JOAN WRJGET, 511 Market strect, Opposito Battery, San Fracelisco.

## REMOVAL.

O FFICE OF THE PACLFIC MEPTAX, Jurgical umee is removed to 318 Califorpia streot Having enlarged our
uow enubled to reduce from 10 to 15 tous of Silver or Gold rock per day,
Gold and silver ore, and Sulphurot Assayers', or Sil versmitles' sweepings reduced or purchased. COPP LER OBLL-Highest market rates advanced in cash, for shipmenti.
818
S. Culiforuia s. Btreet, near Sansome

## SPECLAL NOTICES.



| Office of the Temnegee Gold and Silver Mining Company, No. 7, Montgemery Block,-At a meet ing of the Board of Trustees held April 22, 1863, an As seasment of One Dollar and Fifty cts per share upon the capital stock of said Company was levied, payable on or betore Saturday, the 23 d day of May, 1863. <br> J. H. BLOOD, Secrelary. |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Office or the San Francisco Goll and
Silver Mining Company. No. 7 Moutg mery Block-At a Silver Mining Company, No 7 Moutge mery Block-At a
meeting of the Buard of Trustess, held April 20 , an ASmeeting of the Buard of Trustess, held April 20 , an As-
sessmeat of Une Dollar (\$I) per share on the capital stock of this Company was levied, payable on or beSan Francisco, April 27, 1863. BLOOD, Sceretary.
[ma2I.

Office of the Snm Patch Gold and sifa Office of the Sam Patch Gold and sila
ver Mining Company, No. 7 , Mon'gomery Block. At a
meeting of the Board of Trustces beld March 30,1863 , an meetiog of the Board of Trustees beld March 30,1863 , an
Assessment of Fifty Cents, ( 50 cts.) per share on the capital stock of said Compary was levied, paysable on or before Thursday, April 30, 1863. J. BLOOD, Secretary. ANNUAL MEETING--The Anmual MeetS. M. Co., will br held at the company's Office, No. 7,
Montgomery Block, on Monday, May 4, 1863, at I o'clock
P. M. $\begin{array}{r}\text { P. M. Francisco, April 22, } 1863 . \\ \hline \text { San }\end{array}$

Schmelfzer Gold sind Silver Mining Company.-At a meeting of the Board of Trustees of this Company, held Aprll II, I863, an ussessment of 25 cents per share was levied, payable in United States coin, to the Secretary, at the office of the company, No. 5003 fontgomery street, on or before FRIDAY, April 17, 500 3iontgomery street, on or before FRIDAY, April 17
2863.
ap20.Im

## To Mine Owners.

PArmies having a Good gilver Min
and wishing for
Machinery to work it for an interest in the Mine Will do well to apply at this office. No organized com-
pany need apply.

## WHEELER'S <br> Amalgamating and Separating Pans,

It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for trituratiog and amalgamating purposes to any other in use.
The most important principle connected with the ope-
ration of these Pans is the separation of the triturating process from thrit of extractivg the amalgam from the eand. The chiel cause of loss of che precious metals arises from the passing off of the same in combination with the quicksilver, iuring the proces of trituration, and in
cleaning up. By the introduction of the Separating Pan cleaning up. By the introduction of the Separating Pa working these machides there is no appreciable loss quicksilver, and hence none of the precious metals.
Where these Pans have been introduced and operated by the side of others on sauds from the same Fat, the
Wheeler Paua have uniformly gained a large percentage of metals over its competitors, as well as a still larger percentage in the amount of work performed
**: These Pans man be seen in daily operation, at the Miner's Foundry on First street in this city, where at interested are invited to call and examine for themselver. nol6-tf ZENAS WHERLER.

## Agency For Patents.

THE UNDERESGNED having been Iong established in arrangements for attending to the interests of inventors at the Patent Office in Washington, offer their services for the securing of Caveats and Patents also, will at-
ten : to the sales of Patent Rights, and to all matters
connected with patented inventions.

WETHERED \& TIFFANY,
Ofice, 410 Montgomery street.
countris B .omet, REALESTATEAGENT, No. 410 Montgomery street, San Francisco. Real Eatate Purchased and sold, and Loans Nego-
ciated.
P. M. STEAMSEIP COMPANY NOTICE.
Until further notice, the Steamers or ditpatched on the

3d, 13 th and 23 d of each month.
When any of the above dat s fail on Sunday, the steam er will be dispatched on the following Moniay
A. B. FORBES, Agent.

## FULTON FOUNDRY \& IRON WORKS

HENCKLEY \& CO.,
manufativerkrs of
Steam Engines, Quartz, Flour and Saw Mills; Cast Iron Fronts, for Buildinge, Mining Pumps, and all kinds of Machinery, Etc.,

> FIRST STREET,
between Market and Misson.............Sar Francisco.
*** All kinda of iron and Brass Castings furnighed at ehort notice. Every stylo of Finsince to Irou whed caat. Repairing of Bachitery deally done. Prices low.
Pattern Makive in all ith various forms. D. B. Hinckley. Wr. E. Worti. Ww. A. Fibld.

## TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel,

## THE SIMPLE, COMPACT, STRONGAND

effective mauner in which it is appled to any height of fall, (3 feet to 300 , and to any kind of machinery, wilt Save in Transportation Material and Labor, from 25 to 50 per cent. of the entire cost of the
Structure to which it is applied, and proportionally increase its value.
For full information from the Inventor Miners' Foundry, trom 10 to $1 \underline{\text { A. w., or address }}$

> ※., м. м. BETH.

Miners' Foundry, San Francieco.
W. This Wheel is fully guarantekd. Jan19-tf

Wm. P. TAAFFEE, importer $\operatorname{AND}$ Jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.
Cor. Fromt and Sacramento streets,
San Francisco.

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. of Webb, san Franejeco.

## Percy Douglas,

## IMPORTER OF

CROCKERY, FRENCH CHINA,

Glass Ware, Etc., Etc.

No. 421, MONTGOMERY STREET. san francisco.

## WANTED,

GOLD QuARTZ SUITABLETAR
CUTTING JEWELRY by frontier a. deviercy,

487 Pine atreot, San Prancisco.

New Patent Agency.
$\mathbf{W}^{\mathrm{E}}$ Puave connected wition the of the
The Patent Agency Business,
And would iovite Inventors and Discoverers on the Pacific coast, who wish Dikpatch as well as EConomy to call
upon us. We have an Experienced Agent at Washing ton, which, together with our own experience of Beveral years, rendera the

## Mining and Sclentific Press Agenoy

The most desirable place to make application for Letters Patent on the Paciec coast. Apply at
Office of the "Minng and Scientifc Press," Room No. 27, Federal Building, corver of Battery and Waeh ington streets, (directly opposito the Posi Offce) San
EFaucisco.

FOREIGN PATENTS OB'IAINED
By application at this oflec, Room 27, Teleral Building. ETELR \& SMITH, Solicitors.

NOTICE TO INVENTORS.
nrentors wishing to file Caveats should apply at thi
Onice, Room No. 27, Federal Building Omce, Room No. 2T, Federal Building Tiverms modit
ETEE \& SMITE

PATENT RIGHTS.
Patent Rights Boaght and sold, At the office of the "Mining and Scientific Prens" Ageney
EWER \&

## JMPORTANT TO INVENTORS.

Ioventors who obtain their Patents through this Office enn have their Inventions illustrated nnd described iu
the enlumns of this paper Fres of charge, they meroly furnishing hie exgravings. We are alko prepared to furnish engravings nt rensorable rates. Thope whe do not
 our columns, free of clarge. The free use of our col.
umus to aiti them iu introducing their inventions to the pubtic will be found a most important ndynatage to in ventors.

EWER \& SMITH.

## P. M. S. CO. <br> PACIFIC MAAL STKAMSHIP COMPANY'S road with the steamers of the Atlantio and Yacific Steamship Company at Aspinwall. Steamship Company at Aspinwall.

FOR PANAMA.
The Splendid Stonmship,

## CONSTITUTION

J. T. WATEINS .......................... COMMANDER Will leave Fulsnm Street Wharf, with Passengers and Trensure, for P'unama
On Saturday, . . . . . . . . . . . . . May $2_{2} 1863$

$$
\text { at } 9 \text { O'Clock, A. M., PUNCTUALLY, }
$$

And connect, via Panama Railroad, at Aspinwall, with teanashlps for New York.
For Freight or passare
For Freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento and Leidesdoriti sts.

Miners' Foundry
MACHINE WORKS,
First St., between Howari \& Folsom, san franciscu.
$\mathrm{E}^{\mathrm{VERY}}$ dery the Best and Mition of Iron and brass macti E bery, the Best and Most Economical, manufactured in the state of Califoruia, will be furnished with dis
patch at the Miners' Foundry and Machine Works, patch at the Miners' Foundry and Machine Works, as : Steam Eugines and Boilers, Flower, Saw and Quariz
mill machinery, Minjag Pumps, Amalgamators, Retorts Ete., … Ehc., Etc.
Particular attention will be given to the manufactur of Machidery in Sectiona, designed for places of difficul
accesr. Various models of Quartz Crushers, Amalgama tors and Water Wheels-some in operation and on exhi-
${ }^{*}{ }^{*}$ ** Parties desiring in test their ores prncticaliy, in small quantities will be afforded amplo facilities, free
cost.

All parties desiring accurate and highly finished draw ings and Superior Machinery, at most reasnnable rates
are cordialuy invited to call before contracting elsewhere位 HOWLAND,
San Francisco, February $28,1863$.

PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco, Furnish Castings and Machinery of all kinde

Genune White Iron Shoes and Dieg. palmer, hanscomb \& CO,

## To Quartz Miners.

## E.nox's Improved

AMALGAMATING PAN,
PALMER'S PATENT STEAM CHEST.
THe above combination secures The mosk
 nomical marner, whiie it in peculiarly adnpted to the ewteling. Hoating gold and pilver, known to be otherWise losh. Made exclusively. by pilich PALO.,

Nob. 19 \& 21 Finst Street, San Frabcisco.
The public are informed that Letters Patent hrve heen granted the undersigned upon Steam Chest Faloe Bol-
Loms for the inside of Amalgamating Pans or Tubr, und toms, for the inside of Amalgamating Panis or or s,
are ciutioned against making, buyiog using or seling the same without his consent.

## VULCAN IRON WORKS CO.

## P. TORQUET

 .MANAGER.R. IVERS. C. R. STEIGER. S. ATTKEN.

## Steam Engine Builders,

Boller Makers, Iron Founders and General Engineers,
Nos, 137 \&f 139 frbet Stwert, … - San Franeliso. Steamboat Machisery built and repaired; also Saw, Flour and Quartz Milis, Pumping and Miniog Machinery,

Proprietors of Morse's Patent Fire Grates, Jofyal, Fournyyton and other Turbine Water Wheela with latert improvements.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
san fbancisco.
GOLD bearing sulphurets worked at reas Geal onable raths. als the Gold Extlactrd by Chemhigher than the BEST AMALGAMATIUN PROCESS. wor Apparatus for separatiog Sulphurets set up by ex-1 mill owners. No power nor clean water required for he purpose. No power nor clean waler nov8.3m

LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET TRON

The only exclusively Boiler Making Establishment on the Pacific Coant owned and conducted by Practiral Boiler Makers. All orders for New Work, the repairing
of Old Worts, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets,
Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RISDON.

JAMES PHELAN,
(Latz J. \& M. Pbelan,
IMPORTER AND JOBBER,
Wines; Liquors, Etor, Etery
Nos. 616 \& 618 Front street,
Between Jackson and Pacife Streets,
Established
Sis
All Goods Guaranteed. Orders Solicited. TERMS LIBERAL. Jan. 1-4f.

FHEODOR KALLENBERG
Maker of Models
FOR INVENTORS.


## SPECIAL NOTICE.

We wish it distinctly understond that all the interest hich Julius Silversmith ever had in the Mining and Screnific Prfss, ceased in Nuvember of 1862. Ewrr \& Sidith re now the publishers and proprietors.

## NOTICE

With the present number, we forward bills to those of or subscrihers whose names were handed over to us by the ormer proprietor of the Press. We have made out the acounts as we find them on tho books, and will correct anyerfors which may be pointed out. We trast our interior subcribers will recognize the importance of an immediate atention to the matter, Subscriptions can be enclosed, in old coin, within a letter, and forwarded through the Postffice. All such letters should be "registered," when they an be sent at our risk. When it is impractical to send the rect amount of the bills, we will give credit for whatever mount it may be convenient to forward, and will enclose ccoipt in next paper; or the exact amount may be sent in old or silver coin through Wells, Fargo \& Co's Express.

## CHEMISTRY.

No branch of science has made more rapid strides within he past twenty-five years than that of Chemistry. The disoveries in this science are yearly adding immensely to the odastrial employments and productions of the world: The hanufacture in the United States of articles strictly classed s chemical, exclusive of paints, varnish, white lead, perinmes, cement, etc., amounted, in 1850 to about $\$ 5,000,000$. Hince that time these values have been vastly increased; how huch will will not be known uatil the final publication of he census report for 1861.
This branch of science is yet but in its infancy, and is usceptible cf almost unlimited extension, and application o the creation of asefal articlea, largely from the refuse of -very other manufacture, but chiefly from the diversified products, vegetable, animal and mineral of our own and othIr lands. Many of the chemical branches, apart from the money value of their manufactures, are of the highest ecahomical importance to our national incunstry.
Perbaps the most important of the results of Chemistry fluring the last decade has been those in connection with the manufacture of Petroleum. The late discoveries of immense feposits of this mineral oil, and the skill with which the chemist has manipulated it, has resulted in building up an patirely new, large and lucrative branch of business. Chemstry has as yet revealed but a tithe of the wealth of its veat resources.

Conneotycet Tobacco.-A About one hundred and fifty tons of Oonnectieut-river tobacea have-reeently been shipped from and above Hartford, through the agency of a Springfield man, to a house in New York, for the French Government.

## THE MEXICAN TRADE.

The short sightedness of our trans-montain neighbors in therr late l-gislative attack upon San Francisco capital seekiug investment in Washoe, has resulted in turning much of the mining capital of this city into quite a new channel. Although this unfriendly action proved inoperative, for the time, in consequence of its o'erleaping itselt, it has nevertheless had the effect to so disturb the confidence of capitalista here, in the legislative action of that region as to enduce a large diversion of capital into another direction, and into a region which, according to present appearances bids fair to prove an equal to Wa-hoe.
In striking contrast with the action of our neighboring Territorial Legislature, may be placed the liberal enducements which the Mexican Government is holding out to attract thither foreign capital for the development of its mines. The large amount of capital now seeking investment in Mexico will soon Americanise the northern border provinces, and bind them to us by the strongest of all ties, those of con-
sanguinity and interest. The most casual observer of ey sanguinity and interest. The most casual observer of events cannot fail to notice the rapidity with which the new born trade with Mexico is growiuginto an importance of the first magnitude among our California commercial interests. The steamship line which, buta few months since, was put on as an experiment now finds it absolutely impossible to transact all the business which is crowding upon them. Every available space on board their ships is crowded with freight and passengerc. Sailing vessels have also been put upon the route, but the demand for freight and passage is still in adrance of present facilities. So great is this demand that unseaworthy vessels have been employed, and others so overcrowded with deck loads, that the insurance companies have refused their protection, until a portion of the same
has been again replaced upon wharfs to await subsequent has been again replaced upon wharrs to await subsequent ginuing to be looked upon with about as much interest, and attended with nearly as large crowds as the departures of the Atlantic steamers.
Many of our most prominent citizeus and capitalists have embarked in the enterprise of re-opening these old mines. Among the departures by the last steamer, we notice the name of Judge Sherwood, one of California's Pioneers. He took with him men and machinery to work the Soyota Mine, in Sonora, of which he is Superintendent. The field of operations in this region is not less extensive than that upon the Fastern Slope, and is probably fully equal in value. Many of the Mines in Northern Mexico are known to be of extraordinary richness. They were opened and worked at a time when the knowledge of mining was exceedingly imperfect. The steam ergine was a thing entirely unknown to the operators in the mines, and even the ordinary windlass was a labor saving invention, which if known to theon, was entirely ignored, for we read that all the ore was packed out of the mine, up perpendicular steps by manual labor. When water was reached the mine was very soon abandoned. Notwithstanding all these draw backs immense fortunes are known to have been extracted from these mines. Such be-
ing the facts we may resonably expect most extraordinary
results from the introduction of modern improvements, and Yankee skill and energy. With these advantages we hazard but little in saying that this new field of mining enterprise will soon equal, if indeed it does not surpass any other mining field in the world, in productiveness. The Sierra Madre is one vast series of silver mines from South of Darango and Sinaloa to the dividing line between Mexico and the United States; while the Coast region and the Peninsula of Lower California re equally rich in both copper and silver. But a very few only of these mines have yet been opened; thousands are yet to be brought to light by the tireless exploriug evergies of the universal Yankee whose tide of emigration has now been turned in that direction.

All this region is destined to become commercially tributary to San Francisco. The channels of trade on this coastare as fixed as are the channels of our rivers. Legislation cannot alter them. Neither state lines nor international boundaries can turn them. The efforts of legislation in Nevada bave but checked the flow of capital thither for a time, injuring that territory to the amount of millions, but realy benefiting San Francisco, by causing an overflow of capital in a new direction and opening up a field, which might otherwise have remained fallow for years. San Francisco wishes no ill to Nevarla, but rejoices as much in any degree of prosperity which may attend her, as she does in that which may attend any portion of the Pacific Coast. If Nevada wishes to develop her own mines with her own capital, it is well. San Francisco will seek other fields. We have them, both rich and in abundance. However and wherever communities may grow up on the Pacific Slope, physical and geographical conformations must so regulate the channels of their trade as to make this city the common centre and radiating point. There is not ten miles square of land from Central Mexico on the south to the northera line of the British Possessions, and east. to the dividing ridge between the Atlantic and Pacific oceans, in whose prosperity San Francisco is not pecuniarily interested. Without a rival from the Fquator to the North Pole, she sits in her glory the complacent and benignant queen of the entire Pacific Slope.
The Hesperian.-The May number of this excellent monthly came duly to hand. It is filled with the थsual vaxiety of valuable and interesting matter, embellishments, ete.; not forgetting the welcome paper pattern-welcome to the laladies, at any rate. The magazine is now under the Editorial charge of Mr. and Mrs. Strong, who are assisted by an able corps or contributors.
Thm Pacifie Rerew for May, has also been received. This numbenis enbellished with a most truthful and life-like portrait of Rev. Dr. Wadsworth. The Pacific Review is a periodical of which California may well be proud.
Pgst-office at Chifton.-A Post-office has been established at Clif!on, Reese River. People writing to their friends at Austin or Clifton, should address their letters to the latter place instead of Jacobsville.
Patent Granted.-Mr. E. Liliott, of Petaluma, has received letters patent or a pump recently invented by him. This pump is said to be a most important invention.

THE MINERS' I.ABORATORY-NO. II.
We have alpeady described a minerrclas an unorganized body, formed and enlarged by an increase of particles, externally, said particles being attatched by mere juxtaposition instead of assimilation as is the case with veg etable and animal organism. All solid substances therefore which possess neither vegetable nor animal life are mineral. All rocks, are minerals and the chief part of soils are mineral.
When a mineral has a metal of any kind associated with it, it is commonly ralled an ore-as an ore of silver, an ore of lead, copper, etc. Ores are usually found in veiss, sometimes however in beds. A mineral bed usually lies horizon tally, or at a very slight inclination. Lead, zine and iron are often found in beds; gold, silver, copper, mercury etc., very seldom.

## mineral veins.

We propose in this chapter to treat principally of mineralveins. A mineral vein may be described as a fissure or crevice in the earth, more or less vertical, and filled with some kind of vein-stone, utually quartz, more or less mixed or impregnated with various metals, and when so mixed called ores. Most metalliferous veins contain several varieties of metals. The veins of California and Nevada territory probably contain a larger variety of metals than those of any other portion of the globe. Veins vary in width from a fraction of an inch to one or two hundred feet. They usually range from 10 inches to two or three feet in width. Of the origin of veins and the manner of their being filled, there are various theories. The opinions of practical and scientific writers on this subject are quite various. Some attribute these fisures to a process of cracking or opening of the earil in long fisures by some interior power of upheaval ; others attribute their formation to a contraction of the earth's crust in the process of cooling or chrystalization; others again suppose them to result from the action of electrical currents. Their manner of filling up is also a matter of great diversity of opinion. Intrusion, sublimation, deposition, infletration from water, electrical agences, etc., are among the most commonly entertained theories. The probability is that all the agences named have contributed at times and in part in a greater ar less degree toward preparing these valuable deposits, so indispeusable to the progress of civilization and the arts. Our present purpose, however, being to treat upon facts, we shall wave all theorising for the time being, and confine our remarks to simple facts and positive instruction. In futare uumbers we shall probably have something to say on the various theories above alluded to.

## general laws of teins.

Whatever their origin these veins (or lodes as they are sometimes and perhaps more properly called) are, as a general thing, found to obey certain general laws. They are usually contained within clearly defined walls, and are generally found in "setts" or "classes," each individual of any given sett being approximately paraliel to all others of its class. The different setts usually give evidence of different ages, the newest sett being found to have disturbed or displaced the older in parsing across it. The different setts are usually known by the general line of their direction as the "East and West sett of veins" or the "North and South sett of veins." They are usually found most productive near their crossings, also at any point where the vein enters a new - class of rock, a change in its mineral productiveness may bo most confidently expected. The point where a "leader" o "string" comes in is usually improved by such contact. On the other hand a sudden enlargement of a lode, where it is not caused by the consing in of a feeder is almost iuvariably attended with comparative barreness. Thelscattering of a lode into a number of small ones is also almost universally unfavorable. They are, of course, of more recent origin than the rock which they traverse, though their general characteristics and richness in mineral is often much affected by their passage from one class of rock to another. This latter fact would seem to imply that, to a certain extent, they are dependent for their mineral value upon the mechanical condition of the rocks which they traverse.

## troe telis.

As we have alrearly stated veins or lodes are found traversing all kinds of rocks, stratified and unstratified, often
found to traverse a space between two classes of rock, as between the slate and granite, metamorphic (rock changed by heat) and unchanged rock. Veins of this description are usually called "true veins," because they are much more reliable, more clearly defined, of greater linear extent, and generally much larger than veins having both walls composed of the same kind of rock. It is reasonable that these conditions should usually accompany veins of this descriptioninasmuch as fisures betweeu walls of dissimilar rock would naturally present less obsiructions and disturbances and be more continuous in both length and depth, than fissures forced through a homogencous mass of rock. True metalliferous veins are almost uniformly much more productive than other veins in the same neighborhood. The Comstock vein, in Washoe, is of this deseription. This is a condition in regard to quartz veins which should be more generally considered than has heretofore been the case in this country. It will, wherever it exists, be found to exeřt a most important influ nce on the productiveness and consequent value of the vein.

## igneods indications favorable.

Valuable metalliferous veins of ore are often found in secondary and even tertiary formations, yet as a usual thing they are found more aniversally productive and most reliable when they occur in the older and metamorphic rocks. We have the prool of this in our own state and adjoining territories. Those portions of California and the Eastern Slope, where is found the strongest eviderce of ancient igneous action, have as a general thing proved most valuable in mineral developments. Indeed, the idea has been advanced by some, that no metalliferous veins exist entirely disconnected with igneous rocks. It is claimed by the advocates of this theory that whenever surface indications are wanting, metamorphic rocks will invariably be found at no great depth below.

## pectulartities of quartz vetns.

The study of qaartz veins, to the mineralogist and miner, is most interesting and inportant, and one to which quite too little attention has been devoted in this country. In the hasty summary we are now giving we cannot do the subject that justice which its importance demands; but in future numbers we propose to come back to this head and treat more fully upon it .
Few veins exhibit their true characteristics upon the surface. The action of water and the atmosphere, resulting in the oxidation of much of their contents, and other disturbing influences upon and proceeding from the surface, not unfrequently lead to serious fallacies in judging of a vein in the early stage of its development. An important consideratios in the study of veius is the changes which they undergo in their passage from one class of rocks to another. This matter, so far as we have learned, bas never been much considered on the Pacific Slope, although it has long been acknowledged as one of much importance in nearly all other mining regions. We append the realt of a few ubservations under this head from various authorities.

De la Beche in his survey of Cornwall says that granite and its modifications is always found near or at all lecalities productive of paying tin or copper mines ; while lead, anti mony, iron and zine are found independent of and at a distance from granite.
In the Hartz mountains, veins passing from hard to soft slates lose much of their productive character; hard granites, as a general thing, are also found less productive than soft, or decomposed descriptions.
In the Copper mines of Lake Superior veins in hard greenstone are usually contracted and comparatively barren; but the same veins on entering the granular trap, a much more yielding material, become at once expanded, and inproved in yield. This is especially the case with the celebrated Cliff and North American mines. The Copper Falls mine is highly productive and well defined in the trap, but on entering a belt of sandstone the vein is contracted to a mere fissure. Nearly all the veins of the Lake Superior region traverse different mineral planes, and in their passage through them are more or less modified, as noticed above. It will be perceived that instances above cited confirm the correctness of our previous remark with regard to the favorable nature of igneous rocks in mineral localities. We shall resume this subject in our next.

## THE SUPERHEATED STEAM PROCESS.

We have alluded once or twice to a process in operation in this city, fur the extraction of gold hy the use of superheated steam, and have wiluessed the operation on several occasions. We understand that several of these ma chines have been ordered by parties who have thoroughly satisfied themselves with regard to the completeness of the process, and the machine will soon be surjected to a practical test both in Washee and this side of the mountains. The process is the invention of Prof. Ryerson, of New York, a a gentleman of large and practical scientific attainments, and is already in successful use in the mines at Pike's Peak. It is claimed by the inventor, and with good show of reason, that with the tailinge from ordinary machinery a large amount of gold of the most minate microscopic fineness is constantly washed away, which can be readily taken up and saved by this machine. We can see no reason why every particle of liberated gold, however fine, may not be taken up by this process. We shall soon be able to give our readers the results of the practical trials to which the process is about to be subjected at the several points above alluded to.

Tie Business of Gathering Pitch. We learn from Mr John Hart of this city, says the Marysville Appeal, that be has a large number of men engaged in tapping trees for pitch, in Butte county, the best points found yet being about two miles this side of Dogtown and at Nimshew, fonr miles. west of Dogtown.-He has eighteen thousand trees tapped, averaging two cuts or boxes to the tree, and making an ag:gregrate of 36,000 boxes. His workmen are now cutting 500 additional boxes per day. Fifiy-eight barrels of pitch of 42 gallons to the borrel have been brought to town thus far this spring. and from this time it is expected the average amount received will be 25 barrels per week.

Effect of Shot on Vessels.-A shot does not make a hole of its own size right through the wood, but indents it, the fibres springing back after the slock. Generally the course of a shot can only be traced with a wire, sometimes with a hole as large as a man's fliger. The damage most often happens on the inside of the vessel, in splintering and breaking the wood, after the main force of the shot is speut. There is rarely an instance where a ship was sunk by a solid shot. Hot shat and shell do the mischief. This latter will! sometimes make apertures of several feet through the sides of vessels.

Slers of Steam Cylinders.-Much confusion and popu-1 lar iguorance exists upon this point, and errors of statnonent are continually made respecting this or that steamship or boat. There are two vessels building in New York-one an iron-clad battery, the other a North river steamer; the iroul clad will have two cylinders each 100 inches in diameter by 4 feet stroke of piston ; the latter vessel will have one cylinder 83 inches in diameter and 16 feet stroke of piston The largest steam cylinder in any steamboat or stean vessel in this country, is 105 inches; the cylinder of the Metropo-lis-a Sound boat-is of this size, as are also those furnished to the Golden City (now building, and the Constitution belouging to the Pacific Mail Company; these vessels are the only ones that have cylinders 105 inches in diameter.

Interesting to Bonler Makers.-According to the expen iments made by Professor Fairbairn, the law of resistane; for cylindrical tubes is this: A tube having the same strengtl of material, and being of the same diameter, will resist doubl the pressure to one of double the length; or colapsing power other things being the same, varies inversly as the lengtl and inversly as their diameter. Fxperiments made with ell iptical tubes showed that in every coustruction where tubel have to sustain a uniform external pressure, the cylindrical i the only form to be relied upon, and that any departure from the true circle is attended with danger. The experiment also tend to confirm the conclusions heretnfore arrived a namely, that the strength of rivited joints of malleable iro plates are nearly as the numbers one hundred for the plat, seventy for double rivited joints, fifty for single rivited jointi

Present indications point to a most abundant harves throughout the State.

The Fisolis Iros-clad Fbigates-Fune of these vessula have returned from their experimental voyuge to Portigal, and the naval report of the I Andon limes says that the plates aro locse, and that the vessels are not in a condition to ga nut tusea now. 'The impressiun of the writer seems to bn hat the fastening of iron plates to the woolen hull, will not Luswer the purpisass desirud. It appears as thuagh our! lit He flept of Munitors were the mist furmiduble iron-clad fleot alluat.

Trbasure Simparnts.- During the present year, up to the Both ult., $\$ 15,892,10374$ in treasure hads been shipped from pin Francisco, smilfor a corvespondiug period of time last $10,865.760 \quad 92$ was shipped-showing an increase of xpurts for the preasent yoar of over $\mathbf{5 , 0 0 0 , 0 0 0}$.

A Powerrus, Sinp-Tho Royal Oak, an iron-cased ship, is
 nonth. Her elggine is of 800 horse power, und sho is comIntoly covered with four and it half inch armor, and has a areet shot proof, whone: the captain direc's all operations means of Gishorn's telegraph, wheh commanicates with ho engine-ronm and stearime apparatus. Her armament onsists of 32 68-pounders, and two Armstrong 100 -pounfers; and the bow is constructed so that she cin be used as ram.

Wiruis the last gear over $\$ 8,000,000$ in gold dust has een received at the New York assay offices from Pike's P'eak.

## TO MLNERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable hineral deposits, other than gold, in almost every section of the stato, which have of late been made, it is but reasonaple to suppose that prospecting even in California, has but fust commenced. The simplest and most universal of all netaliferous deposits is gold. It rarely occurs in any other form than that of "free gold" which is readily discernable to he naked eye. An examination of any rock or earth for rold is 20 extremely aimple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a nan is an invariuble te.t. If in rock of any description hal rock pounded fine in a mortar and washed, in the same banner as alluvium, will usu lly expose its gold to the nafed eye, if there 18 any there in paying guantity. The only exceptions, are where the gold is contained in iron pyrites, fr copper pyrites containing also iron. In either of the Iwo latter cases the presence of gold may be readily ascerlained by placing the pyrites in any suitable vessel and ) keeping the contents at a moderate heat for from four to six hours, with frequent stirrings, by which means the sulphur f will be evaporated, and the copper, if any is present, clanged to a dull red color, and the gold retaining its natural appearance, on subjecting the whole to the usual panning process, may be readily seen by the naked eye.

Not so with othermetals. Silver, copper, ziuc, nickel, and many others appear in such a great variety of metalifrous forms as generally to defy all but the most pracrical Fnd scientific eye. No description of these ores can be written which will afford any very important aid to the inexperienced in making explorations. Alter reading descriptions, however, and carefully examining the specimens kescribed, the explorer may go out and search with some degree of confidence and intelligence. A study of the char-- acteristics of the sulphuret ores alone, would lead an exPlorer to pass over, entirely unnoticed, the mehest värieties of the ores known as Chlorides or Horn Silver, which, from the facility with whicb they may be worked, and their usual richuess, are generally considered the most valuable of silven ores. There is much reason to believe that this variety silver ore will be extensively found in all the volcanic gions of this State. So with many other ores.

Considering the great difficulty, in the present lack of cabinet collections, and other means of instruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the developnient of our mineral resources, we hereby make
the offer to miners, prospecturs and all others, who in their travels or explarations iusy como acruss specimens having the appearance of mority or value, to carefu'ly examino and pronounce upon the same, free of charge, as to their char-ucteri-tics, value, etc., whenever any such specimens are brought or sent to this oflica free of cust to us. We bave already been called upon in many such cases, and we shall at all times bo willing to give our attontion to any such requests which may bo preseuted to us.

Our object is to furnish the miners of California with overy class of information which shall be valuable to them in the progress of their calling and in the developent of the mineral resources of the State, and we know of no way in which we can derote a portion of our time more to the interests of miners than in the manner here proposed. 'I'he only equivalent we ask is that they shall do what they reasumahly can to sustain and improve the paper devoted exlusively to their interests.
In carrying out the plan we propose, every miner and prospector should he at all times on the lookout for any new mineral. The ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusucal apperrance in conformation, color or other characteristic, attention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be valun in it, although the gold may not shine there. We shall commence in our next issue a sories of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notic of the California prospector; and we have the promise also, at an early day-prohably within a week or two-of" a series of articles, under the head of "The Mrner's Laboratory," which will be prepared especially for this paper by one of the most skillful me'allurgists on this const, and which will be found of great value to the mining public.

## notice.

Coso Silver Mining Co.-The Office of this Company has been removed from the Stevenson House to Nos. 11 and 13 Court Block, No. 636 Clay street between Montgomery and Kearny. Entrance on both Clay and Merchant streets.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scifntific Press? If so, you are an annual loser of many times the price of \& year's subscription, particulurly if you are engaged in quartz mining. The same amount of practical information, important to miners and meshanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper' to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no papfr that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Par cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months ; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontre the paper after being a constant reador of it for evea that short period.

Mining and §rimific ${ }^{2}$ ress.

 C. W. M. SMITH and W. B. EWER, • ; . . . -Proprietors

Engravingw, Electrotypes, otc.


 Pathens will remembir that when we exechte ebgramps we will hisert



## To Printers.

As Interrast in one of the most anurishing and best paying Newspa Pro (Mhens in the momntaink is offered for sale on casy trmas. A rare up porthity is herebse jresinted to any printer desiruts of extablibhing himful mound buslucsis in one of the healthiest, mast thrion cuquire at this ful mo.
ollice.

## mining and scientific press.

THE ONLX MINING, MECHANICL AND SCLENTIELC PAPELE ON THIS CONTINENT.
therd TEAR: volude vi-new series i
A hew rolume of this extenaively circulated paper commenced Sept. I1,
1862. It is intuoded toat every number shall bo repleto with information 1862. It is intuaded tbat every number shall bo repleto with information
concerang Miuha, Scientific, Mechanicul and Juduatrial pursuits, tugether
 for its columus.
This paper is dovoted to the abovo purposen, together with the interests of Science, Arta, Agriculture and Commerce, and any general information that may be of interest to the render : Amd it is the intration of the proprie-
tor to spare no pains or expense in miking it equal in juterest and valuable information to uny pajer yet pullisilied.

## The Mining

Will fnit to f grat value, as it will contian all tho news apportaiming to Miniug, the prices and sales of Mining Stocks, new inventions of Machinery adayter to toat purnose, and of every thang generally that may bo of survice to the Minor.

## The Inventor \&

Will fund it an excellent medhum for the purpnse of bringing his invention into notice, of afcertaining tho progress of invention in this and oflher in obtaining bis natent, the proprietor haviug bud great experience as a Fatent $A$ gent, together with facilities at Washington that cmable him to ob ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly bencfitted by its perusal, ns cach number will contain reva eral original ongravings of new machites and ivventions, togetber with y
large amount of reading matter appertaining theretn. Wo are ennstantle large amount of reading matter appejtaming theretn, wo are ennstantle shall continue to extract whatever may be of benefit or interest to oucaders.
To Chemists, Architects, Millurights and Farmers ! This journal will bo invaluable. All new discoveries in Chemistry will be givoh, and a largo nmmunt of information of great service to Architects aud
Milluriglats will be fount in our columns. The Farmers and llantens will Millurights will be fouml in our columnN. The Farmersanm Plantels will the farmlog interest generally will beamply discussed.

Terms.
To mall subscribers :-Four Dollars por annum.
Clab Rates.
Five Conies for Six Months, $\$ 8$.
Ten Copice for Six Months, $\$ 16$.
Ten Copies for Twelve Montlis, $\$ 30$
Fifteen Copies for Twelve Months, \$44.
Twenty Copres for Twolve Monthe,
For all clubs of Twenty and over, the yearly subserintion Is anly $\$ 280$ Specimen copies will be aent gratis to any part of the country.

## EWER \& SMITH, Publishers,

Room 27, (formerly) U. S Court Building, Corner of Washington and Ba tery strzets, Suu Frabcisco.

## Our Mint, its Rules, Charges and Oporations.

For parting silves from gold when gold
is below $300-1000$ his. fine ................3cts per oz.
" from $30-100$ ths. 10 750-1000ths fine. 7 cts" " oz.
" " $750-1000$ ths to $950-100$ ths " 14 cts
Drposits Stlver Buicion-Purcaagrs.
$\$ 1.21$ per standard ounce 1é per ct. on gross value of all gold continined for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 3cts. per oz. gross weight

301 " 500 , 7cts,
Deposits for Fine Bars
\$1 16-4-11ths cents. per standard ounce, 1/0 per ct. gross value of silver for making hars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bare Sold From Refiniry.
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Depasited for Dollars.
\$I 16-4-11ths. per standard oz. $1 / 2$ per et. gross value for coining. when gold is contained, refuing charge the same as in purchases.

Deposited for Imported Bares.
$\$ 116-4-11$ ths. cents per standard oz. $1 / 2$ per et. gross alue of deposit for making bars.

## PROGRESS OF THE MINING INTEREST.

The encouraging reports, noticed for a few weeks past still continue to come in. From every direction we hear that the miners are doing well. Progress and development appear to be the order of the day. The important results so generally obtsined from those mines which have been properly opened on the Lastern Slope, is exerting a marked effect in urging on the development of many, which have hertofore remained quietly awaiting the results of uther operations in their neighborhood. From Esmeralda, from the Coso region, from Humboldt, from Reese River, from Virgibia and its surroundings, we hear but one report, and that of the most encouraging nature. The Reese River miuers, satisfied from the developments at Humboldt, are already fully at work taking out rock to be in readiness for the mills which are now in progress of erection in that neighborhood, and according to present appearances will soou occupy a prominent position among the various mining localities on the Eartern Slope. There seems to be a growing coufidence in these mines, as well there may be, if they yield any considerable quantity of ore like samples which have reached this city. The cities and towns in California are losing a large amount of population and considerable money in consequence of these tate new and excensive discoveries, but we shall soon begin to get ample returns, especially in this city-for whatever wealth may be gathered up in those regions must flow into or through San Francisco before it can reach the regular channels of trade.

The rush over the mountains at the present time is without a parallel in any former period of the history of silverland. The hotels are crowded with guests, the hills and gulches covered with prospectors and the streets of the principal towns with buyere of "feet."
The Enterprise of Virginia City estimates the present weekly transactions in the Mining Stocks at the various Stock Boards in that city at from $\$ 600,000$ to $\$ 800,000$ exclusive of outside transactions which are set down at $\$ 75,000$ to 100,000 weekly.

## esmeralda.

A correspondent at Aurora City, under date of April 30 , writes as follows :
The "Gen Hooker" Ledge sitnated on Silver Hill between the Utah and Antelope is turaing out gond pay rock. The shaft is down about 35 feet and the ledge averages three feet in thickness. The company are prosecuting the work vigorously and have taken out about 60 tons of rock which will be crushed immediately.

The "Junlata" Ledge situated on Martinez Hill is one of the oldest discoveries in the District. There are two shafts suak on the ledge-one 60 feet in depth, the other 97 feet. The rock is similar to that of the Wide West, on Last Chance Hill. Eleven thousand dollars were crushed from this ledge during the winter of 1862, but the clain has been lying idle until the last menth. It is now incorporated and will be vigorously worked during the summer. A specimen of the rock can be seen at the Pioneer Club Rooms, San Francisco.

The "Mina Real" Ledge, situated East of the Pond and Aurora is being vigorously worked by the Company. The main shaft is now down to a depth of 40 feet and the Ledge is over three feet thick. "The ruck is similar to the Pond and Garabaldi. There are about 45 tons of rock taken out which proves very rich.
The "Alpine" Ledge, situated on Middle Hill, is being worked, and tbe rock prospects rich in both gold and silver. The shaft is down to a denth of about 30 feet and the ledge is about $2 \frac{1}{3}$ feet thick.

The "Great Britann" Lead is one of the oldest locations on Middle Hill. The new shaft is down to a depth of 50 feet. The ledge is over four feet wide and the rock is similar to the "Pacific" on the same Hiil. The Company have 100 tons of rock taken out ready to be crushed.

The Esmeralda Star of May 2ud gives encouraging necounts of the progress of the work upon the Peck and Rowel Lode located on Silver Hill. They have a 4 -foot vein in a shaft 25 feet deep, improving as they descead.
The Paul Tunnel, on the same hill, is now in 150 feet and making good progress.

The Ruth Windsor Tunnel, on the same hill, is in over 100 feet.

The Mansote Tunnel, on Middle Hill, is in over 275 feet. This is the largest tunnel in the district, being 8 feet wide and $71 / 2$ high, designed for a double track. This and the two previously noted have large and valuable claims for which they are running.
The Star also notices progress on the Bright Star and Aurora Borealis Lodes, each of which present encouraging indications.
The Pride of Antes,ope is yielding rock very much like the main Antelope. 'I'he Cumpany hold 800 feet of ledge.
The New Esmeralda Company are pushing their work day and night and are expecting to strike another large lode in a few days.
SoL Letyis looks exceedingly well, and is being worked constantly. A new shaft is down and the rock looks very handsome.
Mt. Bradey is progressing finely; a tunnel is now in one hundred feet, and if the work is continued, day and night, they will reach the ledge by the first of June.
The Liny Dale have sunk a shaft upon their lode, and are taking out rock.
The Pride of the Wide West have sunk a shaft and struck a good looking ledge.
Washoe.

The reports from Virginia and the neighboring districts are losing none of their interest or importance. The confidence which operators there have in the value and permanency of the mines is sufficiently indicated by the heary stock transactions above alluded to. The chief interest, at the present time in that region appears to be centered in and about Gold Hill, where mustimportant developments are constantly being made.

The Monfror District,-Exciting reports have of late been coming in from the Monitor and Peavine Districts. The former is located on the Last fork of Carson River. Gold appears to be the predominating mineral, although quite a namber of ledges are being opened which indicate much value in silver. A great number of ledges have been located in this district, nearly all of which, so far as developments have been made, are exceedingly promising. The lodes are generally very heavy, and are in the hands of hut a very few individuals. The Monitor men acknowledge that there are ledges in the Territory which assay better to the ton, but they hold that no entire district presents better indications. They have also a very important advantage in having an abundance of wood and water to say nothing of excellent coal indications.
Adjuining the Monitor is the Alpine Distrigt, which preats the samegeneral characteristics with the Monitor.
The East Fork of the Carson, in the immediate vicinity the mines has a rapid and very even fall, affording a large number of most excellent mill sites. These mines are in a direct magnetic direction from Virginia City and are supposed to be a continuation of the same series of ledg a, which appear there. The ledges, which are large and well defined are ustully foubd on high and narrow hills, affording most excellent facilities for drainage and working. There is much reason to believe that this will soon prove very valuable as a mining region.
mining in californla.
The great rush over the mountains, caused by the recent extraordinary developments in Silverland, is being sensibly felt throughout the interior. Many of our mountain towns which have for many years been improving, with a steady increase of population, have come to a sudden stand still, and some are eyen on the retrograde. Of course such a state of things will be bat temporary. Of the many thousand now on their way from the East, but comparatively few will tarry on the other side of the mountains. The great bulk of the immigration will find its way into California and serve to fill up the gaps now vacant by the absence of the silver hunters.
The Copprar Exorfement is also operating to a considerable extent in checking the movement Eastward, by opening up new fields for exploration at home. A large number of miners are now actively engaged in developing this new interest, with most flattering prospects of abondant success. The copper mines which were first opened are mostly in the hands of a few individuals, who are quietly prospecting their work without availing themselves of the benefits of the Corporation Act. It is well koown that several of these
companies are already realizing large profits, while, if we are to judge of the recent advance in the price of "feet". in some of the incorporated companies, we shall soon be able to enroll several of these public institutions under the head of "Dividend Paying Mines."

Gold Minta.-In the present excitement with regard to silver and copper, our gold mines have been almost outirely igoored, and it is only now and then that the eye falls upons a paragraph in an interior exchange, announcing a new gold strike or an extraordinary "clean up" of that once predomi. nent mineral. Still the few paragraphs of that kind whith do come under our notice are quite sufficient to assure us that the gold mines still continte to "give out" their accnstomed yield. It is to be feared that capitalists in this city are not giving the mines within the State limits, that degree of attention which they merit.

Copper Smelming Works.-The Cali. Copper Co. will be ready to commence smelting in about two weeks. They advertise for ores, which they will purchase on delivery at their wharf at Antinch. Propositions for purchase will be entertained on ores of any grade above seven and a-half per cent.

It is said that some of the most dislinguished engineers in France have approved a plan for a railway from Paris to Mar. seilles, by which the journey, which now consumes 18 hours, may be made in 1112 hours. The distance is 510 miles. The plan has been submitted to the Emperor for his approbation. The hydraulic system, in which slding is substituted for running on wheels, is that proposed.

GENERAL MITNLIVG STOCK REPORT.

## REPORT OF BIDS

At the San Francisco Mining Stock Board,
For the week ending May 9, 1863.

## 

## REMARES

Tha Miwing Sharo Markot for the wectis bas mbintained quito an aver ago dencoes af artivity, although the ambunt of mosey whech has changed mandin hun been comparatively smath. Truasactions have been congeed to to low priced stacks mostly
Burnade dan lieen the chier exeltemont of the week. M72 shares, near. 15 onm half the ebure athant of this ntock, han changed badeds at rutes varying froms \$371: to \$75. The salis commenced at $\$ 37$ nut adraticed kientily to $\$ 75$, on 30 days. From this porat they commenced receding and clormt the weak at \$5. The adrance in thle wtock was oceasioned by tolegrapthle advices that a rich velin of ore hant been struck, fisur fiet wide The nibbequeut decllio wan owiug to ailviecs that the suanel had been tomed. The exentement culrumbed on Thursduy, on which day it was ofd in Virciuta Ctity ut 8100 , with $\$ 90$ offerved.

Ophlf has found no retlers, though it bins been onquired for at $\$ 2500$. A Hividend of $\$ 18$ per foot whis declared on Weduesday.
Iu Gould ant Cerry the transactions have been conflined to ono foot, Which sold for $\$ 3850$ un 30 days. It w.s offered at $\$ 3700$.
Ravige bas improved nbout $\$ 200$, but with light transact inns
Iady Bryan wan quite freely dealt in early in tho wrek.at \$13. An ascossment of four dullarn per share harmg been loviod on Saturday the stuck dropied sudionly to $89 \%$. The Company has determined upos a thorough opentug of the mide.
Lacerne has been slightly dealt in at $\$ 8$ (0) 10. An assessmont of $\$ 10$ per foot han been levied hy the Nirectors, payable Junc 4 th.
The Chmllar, Daney, Burning Moscow, Chas. Caney and Norton bavo mightiy deelined.
Sacramento, lowa and Meredith havo improved somewhat over last quo.
Halod Norcross has been in fair Armand at an ndvaneo of about $\$ 125$.
Yellow Jacket was un remand ou Thursday at $\$ 860$ (1) $67 n$, an advance of
350. Altvices have beell receivel that the suit in which this mino has been Involved with regard to thle has been decided in its fnuor.
Overmau has also quadrupled during the week in this Merket an woll as Virginia Clty.
Fismeralda Stocks contifue to attract o largo sharo of altention, with aut very littlo sureculative asjucet. Werefer to our record of trausactions and Stock Board Report.
Hyuboldet and Res er Biver continue to gain favor in this market, and nuch intereat in felt in the dattoring reports from those sections.
Shein inds buyers at $\$ 180$, and is firm at that price. Ne Soto is in domand at $\$ 73$, a slight declive. Periz wel
blesí. Reose River company at \$3y/a.

## TRANSACTIONS IN SHARES, FOR THE WELK

## NEVADA STOCES.

Hale \& Norcross-8 at $\$ 940 ; 4$ at $\$ 900 ; 10$ at $\$ 1000 \mathrm{~b}$. 60 d.; 20 at 975 b 30; 2 at $925 ; 10$ at 965 b 30 .
Burnside-10at 37; 14 at 3716 ; 21 at 39 ; 10 at 45 b 30 ; 128 at 55 ; 9 at $46 ; 22$ at $65 ; 19$ at $621 / 2 ; 5$ at $65 ; 5$ at $64 ;$ 10 at $671 / 2 ; 28$ at $70 ; 15$ at $691 / 2 ; 20$ at 74 b $30 ; 40$ at $55 ; 60$ at $54 ; 16$ at $56 ; 25$ at 75 h $20 ; 10$ at $67 ; 10$ at $655 ; 20$ at 50 ; 25 at $55 ; 15$ at $70 ; 22$ at $69 ; 3$ at $67 ; 10$ at $971 / 2 ; 13$ at 60 ; 10 at $55 ; 10$ at $56 ; 5$ at 55 ; 10 at 60 b $30 ; 20$ at $56 ; 20$ at 55 ; 15 at $60 ; 25$ at 59.
Mount Mope-15 at 60; 10 at $52 \frac{1}{2} ; 20$ at $55 ; 5$ at $55 ; 5$ $54 ; 5$ at $52 \frac{1}{2} ; 10$ at 50 b 10.
Adratic-50 at 8. Y Fll Dorado-10 at $871 / 2$
Lady Bryan-21 at 11; 25 at $1012 ; 50$ at $11 ; 55$ at 10.
Bajazet-10 at 30 s $10 ; 40$ at 30 . 33 at $30 ; 10$ lt $271 /$.
Chullar-20 at $480 ; 20$ at 475 b $30 ; 16$ at $440 ; 41$ at 435 .

## lo at \$450.

Gould \& Curry-4 at 3850.
Savage-5 at 2100; 6 at 2200.
Meredith-19 at $38 ; 40$ at $40 ; 10$ at $41 ; 50$ at 40 .
Crown Lead -5 at 6.$\}$ Sacramento- 25 at 70.
De Soto-5 at 120; 5 at 115; 5 at 1121/2; 16 at 100.
Overman-15 at $200 ; 5$ at 235 . $\zeta$ Einpire-10 at 27 .
Poud-5 at $60 ; 10$ at 70 b $30 ; 8$ at 50 b 30 .
Daney-40 at 415 b $30 \mathrm{~d} ; 40$ at $4121 / 2$ b $30 \mathrm{~d} ; 40$ at 420 b
$30 \mathrm{~d} ; 4$ at $390 ; 25$ at 405 b $30 ; 8$ at $375: 12$ at 370 .
Burning Moscow- 30 at 170; 30 at 168; 10 at 165; 20 at
175 b $30 ; 7$ at $155 ; 40$ at 170 b $30 \mathrm{~d} ; 50$ at $150 ; 2$ at $160 ; 20$ at 170 b 30 .

Pride of the West-5 at 200.
Cedar Hill Tunnel-100 at 5; 100 at $5 \frac{1}{2}$ b 30; 30 at 5; 100 at 6 b 60 .
Reese River- 50 at $31 / 2$.
St George, V. D. -20 at $221 / 2$ b 30 ; 5 at 20.
North Potosi-5 at 30. Yov. Nye-20 at 12.
Madison- 50 at 15 -
Best \& Belcher-40 at 425.
Dick Sides-25 at 425.
Cole-20 at 14.
Sunta Rosa-20 at 10.
Pride of the West-5 at 200.
Lucerne- 95 from $\$ 8$ to $\$ 10$.
Charles Caney- 72 from $\$ 95$ to $\$ 100$.
Norton- 90 from $\$ 27$ to $\$ 30$.
Red, White and Blue-215 from $\$ 18$ to $\$ 16$.
Nevada-130 from $\$ 37$ to $\$ 40,60$ days.
Banner-20 at $\$ 18$.

Yeltow Jacket-5 at 660; 2 at 680; 5 at 600.
Mt. Havidenn-26at 5. $r$ sierra Nevadu- 10 at $60 ; 1$ at 60. South Burnside-20 at $9 ; 10$ at $814 ; 5$ at 9 .
Harrisoa- 25 at 5.$\}$ Spanish, No. $2-5$ at 60.
Purter-131/2 at 10.

## h:MERAIDA Emeks

Wide West-5 at $380 ; 15$ at $375 ; 10$ at $350 ; 5$ at 370 b $30 \mathrm{~d} ; 5$ at 350 .

Utah-10 at 100.
Baubuo-15 at 46; 20 at 44; 10 at 50 b $30 ; 10$ at 47.
Fulls of Clydu-30 at 1015 ; 25 at 10 .
Budie, Silver Hill-150 at 115;201 at 1; 20 at 50.
Budie, No. 2-113at 3
Willow Springs- 50 at $13 ; 35$ at $15 ; 20$ at $17 \mathrm{~b} 30 ; 40$ at 15; 10 at $16 t / 2 \mathrm{~b} 30 ; 10$ at 17 b 30 .
Jusephine -15 at $23 \frac{1}{2} ; 30$ at $21 \frac{1}{2} ; 5$ at $22 ; 10$ at $21 ; 53$ at $2112 ; 38$ at 23 b 30 .
Coso-20 at $20 ; 10$ at $21 ; 16$ at $28 ; 10$ at $25 ; 40$ at $30 ; 10$ at 29.

Empire-10 at 2\%; 20 at 26.
Union, Russ Distri't- 25 at $\$ 21 / 2 ; 10$ at $\$ 23 / 4$.
Silver Hill-20 at 67! ; 50 at $70 ; 15$ at. $67 ; 10$ at $68 ; 55$ a t 70 b $30 ; 10$ at 701 2' b $30 ; 6$ at $66 ; 10$ at 68 b $30 ; 15$ at $60 ; 25$ at $65 \mathrm{~b} 30 ; 23$ at $61 ; 10$ at 62 .
Tucker-50 at 2; 40 at 2.
Iowa-10 at $97 \underline{2}$; 16 at 130 b 30 .
lst N. E. Ex. Esmeralda-30 at $8 ; 20$ at 8 b 30 .
St. Louis-20 at $2 ; 150$ at $3 ; 70$ at $3 \frac{1}{2} ; 50$ at $3 \frac{1}{2} ; 20$ at $31 / 2 ; 150$ at $41 / 2$.
Utica-10 at $131 / 2$.$\} Pond-10 at 70$ b $30 ; 5$ at 58.
Aitna-513/4 at 11. \} Peruvian-100 at 50 c .
Gen. Hooker-10 at 10. \} Empire-16 at 40; 10 at 3716.
Su beam-40 at $16 ; 10$ at $17 \frac{1}{2} ; 20$ at $15 \frac{1}{4} ; 25$ at $5 ; 20$ $51 / 2 ; 45$ at 6 .
Esmerald -25 at 46: 10 at $46 ; 15$ at $48 ; 10$ at $471 / 2$.
Mios Padre-5 at \$65.
Banner-20 at 18.
Peru-25 at 25.
Moss, Reese River-10 at 50.
Cuba, Keru River-5 at, 12 $1 / 2$.

## california stocks.

Taurel Hill-20 at \$10; 25 at $\$ 10 \frac{1}{4} ; 25$ tt $\$ 10 ; 20$ at $91 / 2 ; 20$ at $10 ; 20$ at 9.
Melones -10 at $124 ; 7$ at $110 ; 8$ at 130 b $30 ; 10$ at $97 \frac{1}{2}$; 5 at $100 ; 5$ at $115 ; 5$ at 110.

## copper stocks.

Napoleon-1 at $\$ 100 ; 20$ at $\$ 70$ s 30 .
Mammoth-25 at $\$ 11$.
Josephine- $\$ 221 / 2$ bid in Stock Board, $\$ 30$ asked.

## VIRGINIA CITY STOCK LIST.

Corrected for the Mining and Scientific Press, Friday, Mny 7, I863.


## WASHOE STOCK REMARKS.

For thu wetk ending May 7, 1863 ,
The Stock transactions of the weuk have bren uncrianlly hoavy, "BC
 the supposethagergate." Money has hicen abuuanat and freely offered. A number of very mgnticant llucthatious lative bren unted, but the general tendemey of prifees fian been upward. Sume chaints, indeed, havo been douthed and even trippted. The chef interwst nufl athaches to the neighburhoend of Gold Jilli.
Biritsall has been largely doalt in during tho week at a beavy advauce. $\$ 60$ was frecly niferen at lifst, without puthers. Subsequeutly offers advanced $\mathbf{t 1} \$ 56$ and $\$ 60$, which wers accopted. On Thursday last is etood ac $\$ 65$ (a) $\$ 70$

Burnsite has advnuced during the week from $\$ 35$ to $\$ 90$. This atock is prtuepaliy held in san Francisco. The cause of this audden movement is fully detailed in our San Franctica stock Remarky
Ei Dorado has been wuel deats in. There are more buyers than sellers. It has advasced during the week from $\$ 75$ to $\cdot 160$.
Allen hus gone up from 805 to 95 , nt which latter price it la saleable.
sucramato has also met with alight ad vance, although we contioue our hast week's quotation.
Harrison, Virgiula Iucorporntion, was in rlomand at $\$ 85$ (a) a7 during the early part of the week and wan dealt in to sume exteut at blese figurep,
but subequently declined to $\$ 27$. It is now, however, held firm at $\$ 37$. but without hikers.
Thu Muntour and Eij Dorado ledges have been made the subject of much proplatio speculatiou. The ledgo, by many, is claimed as the geruine Comstock ven.
Pouce de Leon appears to bo comjing into [avor. It has beon saleable duriog the weok at $\$ 9$ @ 12 , going up to that ggure from $\$ 4$. A considerable amonut has changed hamis at these figures.
Texas is saloable at \$10 (c) I2. Utah hua advanced about \$8. There has been enquiry fur Cole at $\$ 18$ to 20 , without sullurs.
GOLD HLL DIGTKICT.

There is ne apparent abatement of the exeitement witli regard to claime a Gold Hill District. Tho Market atill conthues hoth active and buoyant The transactions in shares are heavy and significant, and the eaquiry earuest.
Overman has struck five ore and its stocis has gone up from \$65 to \$225 -more than quaurupled in a week
Belcher has met with a still further advance of $\$ 150$, and is now guoted at $\$ 750$.
Bullion has been slightly fluctunting, several hundred feet having cliang. ed hands at $\$ 65$ to 80 . We quote bids at $\$ 80$, holders $\$ 00$, on Tharsiay last.
Kols-i-unn ls attracting muck attention, with no stock in the market. We quoto bids at \$250 @ 300.
Leon has been somewhat fluctuating. Its tondency the first of the week was upward, aud a still larger ndvauce was predictod within the week. These auticipations havo uot yet beou realized and we quote it at a alight decline on last week.
Culedonia has allvanced from $\$ 25$ to 35 , with demand.
Laboring bas improved during the week from $\$ 15$ to 30 -ana advance of 100 per ceut.
The Eureka, Golden EagIe, North America, Princess and [Hawkeye, have been in request at slight advautes over previous quotations.
Michigan is in demand at $\$ 50$ (3) 60. Thas is an old tocation covering somo of the best ground in Gold Hill.
devil's gatr diftricr.
The Devil's Gate District is again looking. up, and beginuing to attract much attention. The Entos prise expreases the opinion that this much abused district will olum and receive its share of attoution the coming Sum. mer
The Pride of the West takes tho lead in interest just now, having gone p during the week frons \$125 to 225 .
The Wide West also advaaced from $\$ 10$ to $\$ 12$ (a) 15, and many other clams in the district are improviag.

## ESMLERAGDA STOCE LIST.

[Corrected Weekly for the Mining and Scientific Press.]


## LIST OF MINING COMPANIES HAVING OFEICES IN SAN FRANCISCO



## MININGANDSCIENTIFIC PRESS

## Voloanic Smelting Furnace.

## NiNG INFOlBATHN As Tu THE t

,
ande requirest tor relucing ores by this Furuaco no trie theighe hisup, asul the ammunt of fuct only the priceesa of condernation is applied to thin Furnace
th unually ekenperits a volatile form
abtutiou at all intcrexted in thas nubject sa requested
rien whaing will bo allowed to ereet a trial Fur-
 - ing absolnakdiun to ray the u-ual fee for the risht to 0


New Style of Lady's Buckie.
BOHM, INVENTOR \& PATENTEE

Mining and stock Exchange
Mining Stocks of All Finds Bought it Sohl.
Bustanex connected with Miniug Stucks ot every deecril|
-. Abstracts of Titlen Furnished, Etce.

## FREDERICK MANSELL

mechanical de architectural
brAUGHTSMAN゙
No. Iad Cablfurbia street, corner of Loldsuorf.
Drawtigg of Monkis made for partle applying for pa

## A. ROMAN \& Co., Wholealk and rietail

Book Establishment, 417 and 419 Montgomery street, san brancisco.
Ordera reapectfuly golicited and promptly attonded to. A Treatise on Metnillurgy, Comprislag Mining had Gen Etc. By Freflorick Overtuith.
A Mununi of Musullurgy, or A Pructlcal Treatige on the -cords of Minípe und es
ords of Mining and Metallargy, or Facts and Memurnads for the Use of the Miue Agent and Smoltur.
by Jumes Hhillipy and John Darliugton Sany dumes of Stuthilipy and John Dariagto mertas: but includ ing such olhers as are employe in dental practice.
Pigfot ou the Chutuatry and Mining of Copper. Guctical Bueral assuy ing and Mining Oyeriman Miners' Companions avil Gaide, compiled by Silversmith. Assayers' Gunde; or Practicnd dirvotions to Assayors, MHers and smethers.
Practical Assing yhy, by Mehell.
Practical Assiny ing, by Michen.
ilver Ures aut silver Hilues, by Pro. Blake
Uru's Dictionary of Arts, Manumactures and Mines, Wensbach's Mechunios of M ichinery and Eugineering
Vevollo's IHydraulic Formula Tables

Fiespling' Chnical Anmynis.
Together with unay other wo
gnal simalar linees
*2. Books Imported to urder on shor

1. ROMAN

417 \& 419 Moatromery Street.
LEANDER RANSOM,
Civil Engineer AND
SURVEYOR,
ving been connected with the public works
the Stale of (1) inio for 20 years, aud the public the State of Ohio for 20 years, and the publi veys of the Slate ot Califoruia for 7 years.

## ALSO

STATE LOCATING AGENT.
0,000 ACRES OF ST'ATE SCHOOL LANDS,
At the low price of 81,95 per Acre.
erms-Twenty per cent in cash and the balanc facredit of severial yeura.


IAYNES \& LAWTON,

CROCKERY,
GLASS WARE,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery, CIOCKS,
Silver Plated and Britania Ware, етс., ETC., ext.
NO. 516 SANSOME STREET, [Corner of mitrchant,]

## READ THIS!

C OAL OL EXPL.EVGN.-ON SATURDAY EVENING, CSt while Mr. Brevester was ongiged in the summer





## THEN THIS!

## Comet Illumitating Oil !

Manuractured expressiy for Stamford Bro. hals popular
Brand of Kerosene
 BEST FAMILY OIL IN THE MARKET STANFORD BROTHERS,

## Sur Beadtutg fü Erfinder.

Erfinter, weldie nidft mit ber englifden Gpradye befamit finb, föncel ihre plit. thungeneil in ber seutidion Sprade madjen Stizzenvon Erfintuagen mit futzen, beutlidy gejdricbenen Beidrcibunger belicbe man zu aboreffiren an.

## Gird's Budding Knife.

T
$T$ ARE ATTLETION of FARSERS, Horticulcturists





## SQUARZA'SPUNOH

 whoumasta avd retrait,No. 44-Loldeadorit st, near Sacramonto

## The Occiclental Hotel <br> is sow <br> Open for the Reception of Guests. <br> This Motien fas Ait The, Monery mprove.   <br> News Stand, <br> CABINET FOR MINERALS; Also <br> A Branch Telegraph omice, Connecting with all the dines throughouthe country LEWIS LELAND \& CO- Proprietors.

John R. Sims,


Oregon street, betweeu Washington and Davis and Fron and Jacknon streels, San Franclisco.

## $\mathrm{M}^{2}$

 Cnufuetumers of Fivo Proof Doors and Shutuers, kank Vauts, Grating, Cemetary Rati-All urders from the iuterior Oregou, Washington Territory, Vancouver's Inhad, British Culambla, or uny place on the Pacific coast, atteuded to with promptuess dispateh.

Mr. Sims Appreciates the Past liboral patronage of his friends, aud truats that he $m$ continus to merit it is the future.

For the Informition of Strangers ho would say that ho feuls couldident that his experiollce in his marticular calling is hurpassed by none od
this const, which his superior work, seut to almost eve ry town in this state, Uregun, also Victoria aud the Sundwich Islatus, rand to be seen on somo of the best buldings in san Fracisco, fully attast. A large assortmou

## To Mill Owners.

Wanted, by a person fully competeut to the position a situation ua Misisg supbrastenpery' in a Guld or Copper as superioteuleut of Copper Bining Works in Cornwall, and bas acted in the sime capacity in Gold Mines in thi Slate for the fast seven years. He has had much expe-
riunce, in Corbwall, as an Assuyer, a Machinest a Vraughaman, a Surveyor and and Ansor, a Maclinest of Copper Ore. He can give ample teatimouies as to his capacity for fle pouition ho sateks.

## W. T. \& J. GARRATT, City Brass and Bell Founders

Cor. First \& Marlet sts., San Francisco
$B^{\text {ABBET METAL CASTINGS, FTRE ENGINES, FORCE }}$
and Litt Pumps, Clucch add steamboat Bells, TavGauge cocks, Cyliader cocks, Uil Globes, Steam Whisiles GYIHAULIC I'I'L'S and NOZZLES for MINING PUR
 ratt's Patent Improved Journal Metal."

## SQUARZA'S PUNCH.

FIRST PREMIUM
the sacramento agriculitural state fair FOR 1862.

## also; first premium

 the San Pranciceo Bay District Agrientural Fair, 1883blunoratoror, whousair amp retan,
No. 44 Leidsuorf street,
Opposito the What Choer Houso, San Frunclsco.
Latest improvement
in Ladies' Bucklos.
MR. REICHEL RESPCTFULLY ANNOUNCES TO THE dulers in Jewelry, that he has made mportaut improvemoats in BUCKLits, which surpass any and all hereto ore made. Their simplicity, commodiousness, and
bemuty reader them themust useful as well rs ornamen tel trinkets,
orders trom the country respectfully solicited. For particulars call at or address, FREDERIK REICHEL, 629 Merchaut street, San fraucisco.

TO OWNERS OF WATER-POWER

Beth's Hydraulic Pressure Wheel

## THE SIMPLE, COMPACT, STRRONG AND

effective manoor in which it is applied to ady height of fill, ( 3 fout to 300 , a ad to any hind of macliwery, wlll Suve fo Trankportation, Materiml and Labor, from

25 w 50 por cent, of the ebitire cost of the
Structure to which it is applied, and propor-
Honaily jucremse its value.
For full information frum the Iuveutor, apply at the
Miners' 'ioundry, trom 10 to 11 A. M., or address
Miners' Foundry, San Franeleco.
tar This Wheel io fully clallanterd. Jam9-if

## Agency For Patents.

THE UNDERSIGNED Luviug been long catablished in the purcut Agchey Bublucss, und buving teverable at Hiv t'abut Ulicu iu Wushagton, offer therr services for the securivg of Caveats and Yateats also, willat-
tea to the salce of latent Rights, and to all matura couneciod with

WEI'HERED \& TIFEANY,
Ullice, tiv sloutgumery street.

CHARLES R. BOND, (Lato City and Connty Assessor.)
REALESMA'EAGENT,
No. 410 Montgomery street, San Francisco.

Real Eqtate Purchased and sold, and Loaps Nego
ciatod.

## 50 lbs. MIARINE AND

Fire-Proof Paint,
MANUFActuked BY The Pacific metallurgical V. Works th this city, for Hullimud Decks uf Vessela, trun ground
tharge aud six other Minerals. Whed used on the Decke or Bottoms of Smps, it is equal so a cont of stone, wad quite equall to Copper, no worms wall ever effect it, and chespor Han alsy other paiat.

## DIRECTIONS :

For Defks of Shipa, use two parts Mineral Paint, one part White Leud, muxwith Linseent vil.
For Buttoms of Vissels, use one part ground sulphur throe purts Nincral Piut, mix with Coal Tur and upply it fot. fale by all Sbip Chandlers and Tradesmen, in bozel fror sale by all Sbip Chandlers and Tradesmen, in boxen
of 50 lits. ouch, or by the Pacific Metullurgical Works.

## 25 POUNDS PIRE-PROON PAINT.

When used on Roofs, Buildings, or Fencer, it is equal to coyeriug thein with a coat of Stone, belos perfectiy
Fire Prood, and constiag less than auy paint.

DIRECTIONS :
HOUSE :-Mix three parts Mineral Paipt with one par white lead, thiu with Liussed oil: if a lighter color ia Walted, mix lens paint, more lead.
RUOF :-Five parte of Miueral Paint, one part white RuOF :-live parte of Mineral Paint, one part white
Lead; mix with Liuseed oil. Put it thick on a tin Roof as one coat when properiy appliedwill last three years.

WORES, North Berch; Office. 318 California st., Sinn Firancisco.

## WRJGHT'S PICKS.

JOHN wright, of Sucramento, has estabisned mimJ self in San Fraheseo for the munufacture of every description of IICKS, of the bost material, at reduced prices. I'tex Eyrs of the best iroa furnibhed in any quar tity, at low rutes Ordern from the country promptly attended to. N, B.-Node gepuine unlese stamped with my uame. JOHN WRIGHT, 511 Market street,

Opposite Battery, San Francisco.

## REMOVAL.

Office of the pacific metal
Haviur ingial ulifoe is renaved to 318 cuiliforia street Having eularged our Worbs at North Beach, we are
now enablad to reduce from 10 to 16 tons of Silver of Guld rock per day. versmiths' sweephugs reduced or purchascd. COPHCK OBLS-Lighest market rates advanced in cash, for shipmenth. S. C. BRADSHINW, Agent,
318 Califoruia Btreat, near Sausome

## SPECIAL NOTJCES.

Offle of the Nevrdal Copper Mining Co. Offlce of the Nevrdat Copper Mining Co.
March 24, $\$ 1563$.-AL a meeting ot un Buard of Trustees,
held this day, an asscssment of Forty Gents per share was levied upon the Capitul Stack of the Gompuny, myy-
able twenty (20) cents per share withiu thirty days, and nole twenty (20) cente per share withiu thirty days, and date, to the secretary. By order of the Trustees,

Office of the Tennesec Gold and Silver Miniug Compauy, No. 7, Muntgumery Bloch,-At a meet-
jug of the Board of Trustees held April 22, IS6s, an Asseasment of One Dollar and Fifty cts per share upon the capital stock of cald Corapuuy was levied, payable on or belore Saturduy, the 23 d d. By of May, 1863 .
San Fraucisco, April 27, I863. [tma2I
Ofice of the Sam Frmmeisco Gold and Silver Mining Company, No. 7 Momig mery Black-At a
meeting of the Board oi Trustess, huld april 20, an Asmeeting of the Board of Trustess, held april 20 , an Assessment of One Dollar (si) per share on the capital
stock of this Company was levied, payable on or before Thursday, May 2I, 1863. H. BLOOD, Secretary. 'San Francisco, Aprii 27, 1863.
[ma2I.

Office of the Sam Patch Gold and silver Mining Company, No. 7, Moll' omery Block. - At a meeting of the Board of Trustees held March 30,1863 , an
Assesment of Fifty Cents, (50 cts.) per share on the Assessment of Fifty Cents, ( 50 cts.) per share on the before Thursiay, April 30, 1863 .
J. H. BLOOD, Secretary. Selnmeltzer Gold and Silver Mining
Compauy.-At a meeting of the Board of Trustees of this Company, held Aprll II, 1863, an assessment of 25 cents per share was levied, payable in United States coin, to the Secretary, at the office of the company, No. 500 3iontgomery street, on or before FRLDAY, April IT, 1863.
ap20. Im
3. G. ELMORE, Secretary.

## To Mine Owners.

Parties having a Good silver minne
Machinery to work it for an interest in the Mine Will in well to apply at this office. No organized company need apply.

## WHEELER'S Amalgamating and Separating Pans,

It is acknowledged by all who bave examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amaigamating purposes to any other in use.
The most important priuciple connected with the operation or these pans is the separation of the triturating
procuss from thr tof extractiug the amalgam from the procuss from the tof extractivg the amalgam from the ser from the passing off of the same in combination with the quicksilver, during the proces of trituration, and in cleaning up. By the introduction of the Separating Pau to f.llow the trituration this loss is entirely avoided. In
working these macbines there is no appreciable loss of workng these macbines there is vo appreciable loss
quicksilver, und hence uunc of the precious metals. Where these Pans have been introduced and operate by the side of others on sands from the same vat, the Wheeler Paus bave unifornly gained a large percentage of metals over its compesitors, as well as a still larger percentage ia the amount of worls performed.
** These Pane man he seen iu daily operation, at the Miner's Foundry, on First street in this city, where alt interested are juvited to call and examine for themseives. nol6-tif ZENAS WHEELER.

FULTON FOUNDRY \& IRON WORKS HINCELEX \& CO.,

MANUPACTURERS OF
Steam Engines, Quartz, Flour and Saw Mills; Cast Iron

Fronts, for Bulldings, Mining Pumps, and all kinds of Machinery, Ete. FIRST STREET,
Betweth Market and Mission.............San Franctico.
 at short notice. Every style of Finsaing to Irou when cast. Repairing of Machinery neatly done.
PATJERA Handice iu all its various forms. Prices low. D. B. Hucklex. War. E. Worzin. War. A. Fieid.

## WANTED,

Goidevartz sumablefor CUTTING JEWELRY,
by Frontier A. deviercy,
13 ap
487 Pire atreot, San Francibco.
A. C. MORSE, Mining and Roal Estate Agent,

HVING MI ADE ARKANGEMENTS
Stock Brokers of Sau Fraucisco. I ane of the pritucipal and SELL, every description of Mining Stocks in Esme-

## Pacific Mail Steamship Company.

N OTICE.

Gold, Silver and Cop: per Ores
an be forwarded under through Bills of Lading from San Fraucisco to Englind, at reasonable rates. For ful. ther particulars apply to

> A. B. FORBES, Agent,

28-tf Corner Sacramento aud Luidsdorff streets.
P. M. STEAMSHIP COMPANY. NOTICE.
$\mathrm{U}^{\text {ntin further }}$ notice, the sitenmers or dispatched oll tho

3d, 13th and 23d of each month.
When any of the alove dat 8 fail on Suvday, the stean
will be ulsputched on the follinwug Munday:

Wm, P. TAAFEEE, importer and jobber of
Staple and Fancy Dry Goods,
© CARPETS, DUCK, ETC.,
Cor. Front and Sacramenio streets,
San Francisco.
NATHANIEL GRAY, General Furnishing Undertaker,
641 sacramento st., Cor. of webl, Esa Franctico.

Percy Douglas, IMPORTER OF

CROCKERY,

## FRENCH CHINA,

Glass Ware, Etc., Etc.
No. 421, MONTGOMERY STREET. SAN FRANCISCO.

DONAHUE'S
Union Iron and Brass Foundry,
Corner of First and Miscion Streets, San Fhaneieco

M ANUFACTURE STEAMENGINES, Quartz Slumpers, Amalgamators, etc., ete., at redueed
prices, Have now the largest and best assortment of prices, Have low the largest and best assortment of
Gear and Machincry Patterus in the State, a list of
which will be forwardea to mnyone desiring it, free of which will be forwarden to anyone desiring it, free of
cost.
PETER DONABUE

New Patent Agency.


## The Patent Agency Business,

And would iovite lnventors and Discoverers on the Pa cific coast, who wish Dispateh as well as Economy to cal upon us. We have an kxperienced Agent at Washing
ton, which, together with our own experience of sovera years, renders the

## Mining and Scientific Press Ageney

The most de.irable place to make application for Lettern
Patent on the Pacife coast. Apply nt Patent on the Pacife coast. Apply nt
office of the Hining and Scipntif
Ofrice of the "Mining and Scientific Press," Room
No. 27, Federal Buildag, corner of Buttery and Wash ington streets, (directiy opposite the Post Office, San
Eraucisco.
EWER \& SMiTH.

FOREIGN PATENTS OBTAINED
y application at this oflice, Ronm 27, Federal Building EWER \& SMITH, Solicitors.

NOTICE TO INVENTORS. nventors wishing to file Caveats mbnuld apply at this Office, Room No. 27, Federa! Building. TVErns morler
ate.
EWER \& SMPTK.

PATENT RIGHTS.
Patent Rights Boaght and Sold,
At the office of the "Mlining and Scientific Press" Ageney
LWER \& SHITH.

JMPOR'IANT TO INVENTORS.
Inventors who obtain their Patents through this Omice
can have their Inventiuns illustrated aud dereribed in
the columus of this paper FRRE of charge, they merely
furnishing the engruvings. We are alsn prepared to fur
 care to gn to the expense of having engravings prepared
can have there invontions fally noticed and dercribed in
our columas, free of charge. The free use of our colour columas, free of charge. The free use of our con-
umus 10 aid them in introducing their inventinus to the public wall be found in most important hdvantage in in
vebtors.
EWER \& SMITH.

## P. M. S. CO.

PACIFIC MAIL STEAMEHIP COMPANY'S road with the stcamers of the atlautio and Yacif tramship Compauy at Aspinwall.

FOR PANAMA.
The following Stenmships will be dispatehed in the month of May, 1863.
May 13th, - . . . - Steamer Orianba
May 23d, - - - Steamer Golden Age

Will luavo Folsom Street Wbarf, with Passengers and Treasure, for Panama

AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railsoad, at Aspinwall, with teamshups for New York.
For Freight or passage, apply to
A. B. FORBES, Agent
je4 Corner of Sacramento and Leidesdorti sts.

Miners' Foundry
MACHINE WORKS,
First Sto, between Howard \& Folsom, san francisco.
$\mathbf{E}^{\text {VERY description of iron and brass machi }}$


Steam Engines and Boilers, Flower, Shw and Ouart mill machinery, Mining Pumps, Amalgamatora, Retorts,
Ete.
Etc.
Particular attentinn will be given to the mnnufacture of Machiuery in Sections, designed for places of dimpul
access. Various mudels of QusrtzCrushers, Amalguma tors and Water Whects-some in operafion and on exhibition.
$* * * *$

Parties desiring to test their ores practicaliy, smitill
cost.

All parties desiring accurate and higliyy finished draw
inga and Superior Machinery, at mosi reasnanble rate ings and Superior Machinery, at mosi reasnable rate,
are cordially invited to call before contracting elsewhere HOWI.AND, ANGEL \& KING.
HOWI.AND,
Sa\& Erancibco, February $23,1863$.

PALMER, HANSCOM \& CO. GOLDEN STATE IRON WORKS,

No. 19, Fivet Street, San Francisco, Furnish Castings and Machinery of all kinds atso :
Genuine White Iron Shoes and Dieg. PALMER, HANSCOMB \& CO.

## To Quartz Miners.

K.nox's Improved

AMALGAMATING PAN, WITH
PALMER'S PATEN'T S'TEAM CHEST.
T He above combination secures the yoil I. complete amalgamation of the precious metals ol any process now in awn.
By it am is introduced in the most enective and ece catching. minner, whlle it is pecullurly adapted to ther catching ", foating gold and silver
wise lust. Made excluairely by

$$
\begin{aligned}
& \text { PALMER. HANSCOM \& CO., } \\
& \text { GOLDKN STATE TROS WORK, } \\
& \text { in \&y }
\end{aligned}
$$

$$
\text { Nos. } 10 \text { \& } 21 \text { First Street, Sai Francige }
$$

The public are informed that Letters Patent bave bee Tanted the undersigued upon Steam Chest Faleo Bor re ciutioned inside of Amalgamating Yans or Tubn, ab the sume without hia cousent.
W. A. PALMFR.

VULCAN IRON WORKS CO. P. TORQUET............. MANAGER R. IVERS. C. R. STEGER. S. AITREN.

## Steam Engine Builders,

Boller Makers, Iron Fonnders and Gens eral Engineers,
Nos. 137 \& 139 firet Strket, -.... San Francibco Stenmpoat Machnery built and repaired ; also save Flour and quartz Mill, Pomping and Mining Machinery Proprietors of Morse's Patent Fire Gratee, Tofral, Fourneyton and other Turbine Water Wheele with latest improvements.

## DEETKEN'S

Chemical and Metallurgical Works
On San Bruno Road, Islais Creek,
san fbaicisco.
GOLD BEARING SLLAHURETS WORKED AT REA icil procces. Yield of sulphurets frims soto 50 per sea higher than the BEET ADALGGMATION PRUCkSG, QD Apparatus for reparating Sulphare ts set up by es
perknced havis at a cust of $\$ \$ 0$ to $\$ 100$, if desired b mill owisers. No power nor clean waler required fo
bove ourpose.

## LEWIS COFFEY AND RISDON,

 STEAM BOLEER AND SHEGET IRONThe only exclusively Eviler Making Establishment o the Pacitic Coast Ownod and collductod by Practips
Boiler Makers. All orders for Now Work, the repairin of Old Work, executed as ordered, and warranten a to quality.
Old Stand, corner Bush and Market Stroetz Opposite Orionta! Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RISDON.

JAMES PHELAN,
(Lhte J. \& M. Phelsn,
IMPORTER AND JOBBER,
Wines; Liquars, Etcy Eteq
Nos. 616 \& 618 Front street,
Between Jacksoll and Pacific Streets,
Esamandished 1849. Frangsoan
All Goods Guaranteed: Orders Solicite TERMS LIBERAL.

Jad. 1-tif.
ГHEODOR KALLENBERG
Maker of Models
FOR INVENTORS.
V ACAINFS, MATHEMATLCAL, Optical and Pliliosop ical Iustrumputs, Scalek, Weights, etc.;
ps, Dies and Die Sinking, Embossinestarops. Repairing of Machinery prompty attended to. No. 4 Sansomestreet, corner Market, San. Francesco.


## SPECIAL NOTICE.

We wish it distinctly understond that all the interest which Julius Silversmith ever had in the Mining and Scienrific Press, ceased in November of 1802 . Ewer \& Smimd are now the publishers and proprietors.

## OUR MECEANICAL INDUSTRY.

All our large machine-shops and foundries are at this time most active, and driving the ir machinery to the utmost in filling their orders. There are coutracts now in active progress of completion from nearly every section of the $P$ a cific Slope, from below Mazatlan in Mexico to Oregon on the north, and throughout every central portion, even to the distant regions of Humboldt and Reese River.

## the voican tron works.

We recently paid a visit to the Vulcan Iron Works, on First St., which are now under the management of Paul Torquer. At these works we found a large quantity of machinery in all stages of construction, from the pattern shop to the finishing room. This establishment is prepared to auawer orders of every description in the line of Steam Engines, Boilers, Foundry work generally and the necessary food-work to accompany the sume. Like all our other foundries and machine shops this, also, is crowded with business, and censtantly enlarging the area of its shop room. Their works already cover a very large area, which is reconed by acres.

This firm at the time of our visit were just putting the finishing toucbes upon one of the largest orders for mill machisery ever given out in the State. The total cost of the same was $\$ 30,000$, and the whole was finished in forty days from the signing of the contract. This machinery has been constructed for the Las Uruzecitas Mining Company, a recent organization, formed in this city, for the purpose of working a mine located about 125 miles from Guymas. Ihis is one of the old Mexican mines, worked years ago by the Spaniards and loug since abandoned for want of machinery or energy to follow it below the water level. The frachinery which has been coustrncted for this company consiats of an engine with an 18 -inch cylinder, and $31 / 2$ feet stroke; capable of being worked at 90 -horse power. This, we believe, is the largest stationery Engine ever constructed in California. The Main shaft is six inches in diameter Whare the power is taken from the engine. The mill consists of five batteries of five stamps each- 25 in all. Each stamp weighs 612 tos. The length of the engine-bed is 21 feet. The fly-wheel is 16 feet in diameter and weighs over T000 ftus. Three boilers, 42 ft . long, with five five-inch flues each and a fire surface of 960 square fect, will be employed. The process to be emplojed at this mill is that known as the "Freyberg Process." 24 amalgamating barrels will be used, capable of holding 200 Hs . of ore each. The entire weight of machinery, jucluding the wood work, which was also made at this establishment was 90 tons. It went down by the Oregon on her last trip.

A large amount of other machinery work was also in pro-
gress of construction, as indeed, is the case all the time, a this establishment. The energy and skill of San Francisc machiuists is limited only by the demand upon their effort and genius. The day is not fardistant when the machin shops of this city will be prepared to undertake anything within the range of mechanical possibilities. We propose to continue our notices of individual establishments from week to week, and shall endeavor in our progress through the various foundries and machine shops to collect a fund of statistical information, for embodyment in tabular form, which slall be valuable for reference.

We regret exceedingly that the former proprietor of the Mining and Scientific Press, could not have been allowed to rest in peace and quietness, "after life's fitful dream was over;" but some luckless wight, like "Banquo's ghost," will not down, and has set him up, with other notables, in caricature. And to further illustrate, has used the name of the Mining and Scientific Press, which paper Silversmith has had nothing to do with since November last.
At first we were inclined to be angry and kick the fellow who thus should seek to bring ridicule upon ur labors; next we thought of the law, but soon learned of the utter irresponsibility of the parties, and upon mature thought, conclusled to let the matter rest, hoping that the Artist, the Vendors, "Emperor Norton," "the Fat Boy," the "Handsome Boy" with the tooth brush, the "Rag Man" and all the others, will meet at last, where "grub" is free, with "Bummer and Lazarus" to lick the tears from their eyes.

The exports of treasure since the lst instant, have been a follows:
May 2-Per Constitution .......
May 2-Per Eberhard, to Manila.
May 5-Per Oregon, to Mexico.
Total since lst inst...
.....................
Previously this year.
Total since January 1st, 1863. Corresponding period of 1862 .
\$1,010,189 06
15,000 00 3,950 00

## \$1,029,139 06

15.892,103 74
$\$ 16,921,24280$
$.12,293,13935$
Excess thie year. $\qquad$ . $\$ 4,628,10325$

The coinage at the Branch Mint in this city for the mont? of April was-


A communication from "J. P." at Copperopolis, came to hand too latefor insertion this week. It will appear in our next issue. The writer is a practical copper miner, and his letters will be read with interest and profit. Practical suggestions and hints are what we want, at this time, especially upon matters pertaining to the growing interest of copper mining. We are also indebted to the same party for the loan of a volume of "Eapiborn on Copper," from which we shall, from time to time, extract whatever it may contain of value to the copper miner and prospector.

Correspondence. - In order to make room for the valuable and interesting correspondence which has come to hand the past week, we have been obliged to omit our usual mining summary. Its loss, however, is more than made good by the varied and valuable mining infownation contained in our Humboldt and A mador County letters.
We would call especial attention to the letter of "Miner," which contains several suggestions worthy of thought, by all practical miners. Correspondents will also do well to consider that portion of it which relates to them. The necessity of a common medium of communication, and the value of an interchange of ideas and the results of experimental mining operations, is especially worthy of consideration. The columns of this paper are open to all such communications. We trust "Miner" who has proved himself so apt at suggestions, will not forget to put them in practice also. We infer that he is not altogher without an experience, which would be valuable to his fellow miners. Let us have that to begin with. It may serve to call forth other criticisun, or some other experience, which will be of value to the mining public generally.
Our Amador correspondent gives a very interesting description of the Oriental Copper mine, describing its varied and changing appearances as the workmen descended upon its dip. The characteristics of this vein are worthy of study by operators in other localities. Similar degeriptions of other characteristic veins, would be read with interest and profit. Copper veins present' a much wider and more intricate field of study than gold, and we should be pleased to hear from correspondents in such localities.

Our Humboldt correspondent, "Quartz," gives us quite a detail of mining progress in the Buena Vista District, and promises to furnish our readers similar information with regard to other districts in that interesting region. "Quartz" is a man who never promises what he does not intend to perform. His letters will be found always reliable.

An Item for Gray-Htads-An English writer has recently asserttd that an undue proportion of lime in the system is the cause of premature gray hair and advises to ayoid hard water, either for drinking pure or when converted into tea, or coffee, or soup, because hard water is always impregnated with lime. Hard water may be softened by boiling it; let it become cold then use it as a beverage. It is also stated that a liquid that will color the human hair blark, and not stain the skin, may be made by taking one part of bay rum, three parts of olive oil, and one part of good brandy, by measure. The hair must be washed with the mixture every morning, and in a short time the use of it will make the hair beautifully black, without injuring it.

A London paper says, at present 110 mails pass through the penumatic dispatch tube from the station to the distrct Post Office during the day, and not only letters ,but but trucks of iron of the weight of five tuns have passed through. and adventurous visitors now and then perform the joarney to their delight.

## MINING CORRESPONDENCE.

COPPER MINING IN AMADOR COUNTY.
We give below the concluding portion of a private letter from an old friend and neighbor, then, like ourself, not overburdened with this world's goods, but now owning large interests, in several of the most valuable copper mines in the State. The writer, the Rev. I. B. Fise, it will be remembered by some of our readers, was the fortunate discoverer of what is now known as the Oriental Copper Mine. Mr. F. in company with two friends; was passing along the road on horseback, when observing some peculiar quartz croppings, he dismounted and to his astonishment, found that the "croppings" before him consisted of copper ore of most astonishing richness. Of course the travelers lost no time in staking off the ground and taking the necessary steps to secure their discovery." The fact that such immense mineral wealth should have remained undisturbed and unnoticed for so many years, on the direct line of a greatly traveled thoroughfare, affords another evidence of the importance of an extended mineralogical education among the people of California. The importance and palue of this discovery is quite closely foreshadowed in the interesting letter which we subjoin. We shall be pleased to hear from our correspondent often, and to receive the promised call whenever he may visit this city:-

Jaceson, Cal., May 9, '63.
Very unexpectedly, I am involved quite deeply in mining operations. I was one of the discoverers of the Oriental Copper lead, in the Forest Home Mining District of Amador County, and am a stock holder in the Oriental Co., and in several other good leads in this county. And all quite unexpectedly. Messrs. McKim, Trowbridge and myself discovered the Oriental Lead on the 10th of Fib. last. Heavy and beautiful Gosson croppings were seen bulging out high and boldly, in a straight line between well defined, gray granular trap walls, lively with mineral sulphurets, for a distance of one hundred feet. At three different points, between the Gossan croppings, we found boulders of rich and beautiful copper ore, which had doubtless been formed by the workiug of gasses from below. [Our readers will find the probable solution of this phenomenon under the head of our Miler's Laboratory, next week-Ed. Press.] On the 17 th of Feb. we incorporated the company, estimating the value of the mine of 1400 feet at $\$ 100$ per foot. We now have a shaft down on the lode, thirty feet deep, in which, through the first twenty-five feet, we found ulmost every variety of ore except the solid oxides and sulphurets. At the first we found most beatiful malachite, then the red green, and blue rock ore, or "horn blend," which assayed at Molitors in San Francisco, 421/2 per cent copper, and also beautiful masses of solid green sulphate of copper. But at the depth of twenty-five feet these variations gave way to white, solid, live mundic, a vein of grey copper ore, and a black vein with silver lustre. Of this latter we had a piece assayed at Molitor's, which to our surprise yielded traces of gold, $\$ 6237$ of silver to the ton, and $153 / 4$ per cent. of copper. Now at the depth of 30 feet we have a vein of 6 feet in width, of solid grey, yellow and black oxides, and sulphurets of copper, with a vein of grey silver ore with apparently little traces of copper next the east or head wall. In all a vein of saleable ore, eight feet in width, and widening. This is a most remarkable mine and now its real value is more than that put upon it in the incorporation. The office of this company is in Jackson. Wm. L. McKim is Sec.

The Cosumnes company, also incorporated, hold 100 claims of 200 feet each, of twoleads, running west of and parallel with the Orieutal. They also have an immensely rich mine. Have already out several tons of first rate ore, of almost every known variety, and are now making shipments. There are also several other companies in that district, opening onto splendid ore-one of which is the Exchange company, on the Ledger lode. A dozen or more companies have splendid prospects.

Of the Newton Co. near Ione Valley, I may write you soon. This mine is opened to the depth of nearly 200 feet, and is proven rich beyond calculation, and apparently inexhaustible. In it copper was first struck at the depth of about 75 feet. I caunot now, but if you please I will as
soon as I can gather together the facts, gire you a more
particular account of the number and value of copper claims, and mines in Amador Co. I. B. Fise.

## COMMUNICATION FROM A PRACTICAL MINER.

A practical and intelligent quartz miner operating near Virginia City, writes as foffows:-
Editor Mining and Scientific Press :-I notice a large amount of "Mining Correspondence," published in the various journals of your city and in papers, generally, thronghout the state, but it is seldom that these communications contain anything beyond mere common place remarks about the general appearance of the country, an enumeration of a few companies or claims, in which, it is presumable, the writers are more or less personally interested, and perhaps the announcement of a new discovery ic the neighborhood where the letter is dated. The information usually contained in those lettees is of little or no practical value. There are two classes of information which are especially valuable to miners and persons, interested in mining operations.
First, the miner is anxious to gain some practical juformation with regard to the various processes of working ores, and to leara the indications by which these ores and minerals may be discovered and made known to the prospector.
If miners would communicate through the Press, their experience in working the various kinds of ores, and thas compare notes with each other, the result would be the diffusion of a vast amount of information which would be of much practical value. Now why is not this done? Whenever three ar four mill men or mining Superintendents meet, the subject of their mutual, indiridual experience, is almost sure to form an important topic of conversation. What man is there, who does not admit that he gains a large amount of informa:ion in visiting different and distantmining localities and comparing notes with others engaged in the same class of operations? Why not then make this $\Omega$ subject of ointercommunication through the press? There is scarce a quartz miner in the state, who has beeu engaged for any leugth of time in the business who has not tried a great many experiments, and operated with different kinds of ma-chinery-differently arranged batteries, various kinds of amalgamators, pans, etc., etc. Now this experience made public, cannot fail to be of benefit to somebody. If it does nothing more it will serve to get up an increased interest in the busines*, and stimulate a spirit of enquiry and inven tion which cannot fail to be of great general benefit.

You, Mr. Editor, have frequently alluded to different kinds of machinery and processes, which have been devised, and have sometimes expressed your opiniun of them. But that is not altogether what we miners want. We want to know what those persons who are using that machinery think of it. We want the practical information, which can
only be derived from the mill or the mine-that's what we only be derived from the mill or the mine-that's what we waut. [Our correspondent is sensible and hits the nail
squarely ou the head, every time.-Ed. Press.]
I see by the last number of your paper which 1 have received, that you propose to give us some information, about prospecting, a knowledge of minerals, etc., and that you have commenced a series of articles under what jou call "the Miners' Laboratory," which you propose to continue. That is a kind of information which I think you can
pick up for us among your books and libraries, which may be valuable to as working miners and especially to prospectors. I shall read your articles very carelally, and, I trust, derive much informatiou from them. But $\pi$ hen it comes to talking abuut "processes," mining, machinery, etc., I think, with ail due allowance for your editorial judgment, that a little practical infurmation, from persons who are actually employing these processes and using the machinery describ_ ed, will be of more real service to us miners, than that class of information derived from any other source. [Our correspondent is right again.]
Another thing, Mr. Edrtor, we miners are generally pretty hard working men and can't afford either the money, or the time to take and read all the papers in California, to see what all the miners have to say about this business and experinnce. If we read our local paper and one other, say a commercial puper, from your city or state, and then take the Mining Press, it is about all we can manage. We want our local paper for its local news; we want a commercial
paper for general iutelligence, and we want the Mining paPER, as an indispeusable necessity to keep us posted and fully up to the times in all matters of mining interest. Now the habit which miniug correspondents have of sending their communications promiscuously to all the papers in the state, it appears to me, is "a very bad habit," and a very incouvepient one to those of us who desire to keep posted in such subjects; because, to do so, we must open a reading room, and file all the principal papers in the state, and sift out an immense amount of chaff to get a little wheat. Now as we have a mining paper, why cannot maners use it as a common medium of communication with each other? [Our correspondent puts a very sensible query.] But my letter is getting, I fear, quite too lengthy for your columns. I have a number of other suggestions which I would like to make, but for fear of wearying your readers, I will defer them till another time. Yours, truly,

Miner.
We hope to hear from "Miner" often. [Ed.

## HUMBOLDT CORRESPONDENCE.

Unionville, N. T. May 1, 1863.
Editor Mining and Seientific Press.- When I left San Fraucisco I promised to give you and the readers of your valuable paper an occasional letter from this section, and so far as I am able I will make my promise good. It has been so short a time since my return that you must be content with a very short and impartial account of the mining operations that are going on in this region. I find, upon my return, our mountains and valleys dressed in the benatiful robes of spring, our little village presenting a cheering aspect, and our miners, with cheerful and smiling countenances, with their sleeves rolled up and pitching into their ledges.

## progress of the mining operations.

The Peru Company, on the Peru ledge, are running a tunnel to open their claims. The tunnel is now in 45 feet. The Nevada company, on the same ledge, have their tunuel in upward of 100 feet and the work atill progressing. The Mars company are sinking a shaft on the end of their tannel. The shaft is now down over 60 feet, and they are taking out some very rich rock.
The Logan company, on the Manitowac, are sinking a shaft on their claims with fine prospects. The shaft is now run thirty feet deep. The Dubugne company on the same ledge are taking out some very rich rock for shipment to San Francisco. The Sargent company are putting their tunnel through as fast as possible. They are within fifteen feet of the ledge. The Cincinnatus tunnel is in seventy-five feetr, The Rising Sun tunael is in ono hundred and seventy-five feet. The Maine ledge has a shaft thirty-five feet deep. The ledge is four feet wide and nearly all of it very rich mineral The Alba Nueva tunnel is in two hundred and seventeen feet, with a shaft sixty feet deep at the end of the tunael. The National has a shaft eighty feet deep on their ledge. This company have about forty tons of ore at the will and about the same amount at their shaft. The Governor Downey has a shaft on their claims forty-eight feet. The Mary Bell tunnel is now in two hundred and eighty feet.
The Eagle tonnel is in over sixty feet. The shaft on the Lewis Cass is now down over sisty feet on the ledge. The Adams tunnel on the first north extension of the Mars ledge is in over one hundred feet. The Shasta company running for the Albd Nueva and the Governor Downey ledge have their tunnel in two hundred fect. The Delerio, Flora Temple, Brutus, Independence, Calitornia, Jackson, St. Louis, and Kingston ledges are all being opened either by tunnel or shaft.

The Bloomfield company on the Marblehead ledge have recently struck some very rich ore. 'The Hamelin company are going to commence their shaft in a few days. This ledge is over four feet wide and immensely rich. It is a recent discovery and the fortunate owners feel confident of realizing an immense fortune from their claims, and "Quartz" thinks that they will not be disappointed. A very rich ledge called the "Unknown" has recently been discovered by R. G. Ferguson who is a rery worthy and industrions old geutleman. The Schuylkill company are now sinking a shaft on their claims. This ledge is between five and six feet wide and some of the rock is immensely rich. I have seen speci-

## MINING AND SCIENTIFIC PRESS.

imens of thin rock that werv over one third pure silver. [so
Late we-lit! ['kt..ss]
ETAGBS-TUE FIRST NEWSPAPERS.
Iangton © Co. are now stoekiner the road between this place and C'anson and Virgimiat C'ities for a tri-weokly linu uf stures. They have been ruming a werkly stare only, iluriner thes winter, but travel is inereasing so mpilly ou this rond. that we rhall soon reçuire a daily line, and Sims. Iangton and Capt. Ayor are just the men to keep up with tho wants of the country in tho stage and Lixpress line. Our town can now basast of a priating officu. The first number of the paper to be called the "Inombuthll Register" will he issuen tumorrow. Humboldt will now be able to speak for hersel! through the press.
Prosprctisa, etc.
Considerable nrospecting is now going on in the various mining districta, especiatly in Alabama and 'lable Mountain districts. These districts are situated on the range of mountains east of the llumboldt range. 'There is plenty of timber there which will be of great adventage in working the chaims. The Silver Cord is the name of a very rich ledge lucated in 'Juble Mountain district. The leage is over five fere wideeand assays over five hundred dullars per ton from tup rock. The Sulo ledge in Alatrama district is nnother rich fedge and assays very rich, but we are unable to give the firures. The Batavia, Oro-fino, Telagrae, Missouri and llumbur are all very rich and well dutined ledres. The owners of the last named Iouge are so thoroughly convinced that the ledge is immensely rich that they have no fears of its lusing its reputation on account of its name.

## mills wanted.

We need many more mills here and I wish some of the intelligeut capitalists of gour city could be induced to pay our country a visit and see for themselves.

As I mformed you in the begioning, this letter must neeexsitrily contain only a partial account of mining operations hure I have confined myeelf principally to Buena Vis'a district, for the reason that I have been unable to hear from the other districts since my return. In my next I will endeavor to give you an account of them. All of the districts are rich and your readers shall be informed of them occasionally by

Quartz.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable mineral deposits, other than gold, in almost every section of the slate, which have of late been made, it is but reasonable to suppose that prospecting even in California, has but just commenced. The simplest and most universal of all metuliferous deposits is gold. It rarely occurs in any other form than that of "free gold" which is readily discernable to the naked eye. An examination of any rock or earth for gold is an extremely simple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a pan is an invariable tect. If in rock of any description thal rock pounded fine in a mortar and washed, in the same manner as alluvium, will usuully expose its gold to the naked cye, if there $1 s$ any there in paying quantity. The only exceptions, are where the gold is contained in iron pyrites, or copper pyrites containing also iron. In either of the two latter cases the presence of gold may be readily ascertained by placing the pyrites in any suitable vessel and kerping the contents at a moderate heat for from four to six hours, with frequent stirrings, by which means the sulphur will be evaporated, and the copper, if any is present, changed to a dull red color, and the gold retaining its natural appearance, on subjecting the whole to the usual panning process, may be readily seen by the naked eye.
Not 80 with othermetals. Silver, copper, zinc, niekel, and many others appear in such a great variety of metalliferous forms as generally to defy all but the most practical and srientific eye. No description of these ores can be written which will afford any very important aid to the inexperienced in making explorations. Alter reading deBcriptions, however, and corvefully exrmining the specimens described, the explurer may go out and search with some degree of coufidence and intelligence. A study of the characteristics of the sulphurot ares alone, would lead an explorer to pass over, entirely unoticed, the rehost varieties
of the ores known as Chlorides or Iforn Silver, which, from the fatily with whell they may lee wouket, ath their usinal
 ores. There is mach reatom to helieve that this varicty of silver ore will the extensively fund in all the rolcanic rions of this sitate. sio with many other ores.
Considering the great difficulty, in the present lack of cabinet collections, and other means of iustruction, to acquire a practical minerallogical ami geologieal exlucation in this State, and desirous to sid, to our fuilest cupncity, the development of our mineral resourees, wo herely make the offer to miners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefu'ly examinu and pronounce upou the same, free of charge, as to their characteristics, value, etc., whenever any such specimens aro brought or sent to this oflice free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our atteation to any such requests which may be presented to us.
Our object is to furnish the miners of California with overy class of information which shall be valuable to them in the progress of their calling and in the developent of the mineral resources of the State, and we know of no way in which we can devote a portion of our time more to the interests of miners than in the mannor here proposed. The ouly equivalent wo ask is that they shall do what they reasonably can to sustain and improve the paper devoted exlusively to their interests.
In carrying out the plan we propose, every ininer and prospector should be at all times on the lookout for any new mineral. Tne ordinary rocks with which the miner mects in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarcely a picce of quartz or rock of a quartzoze nature, which presents any uucommon anpearance in texture or color that has not been thus modifed by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not ovident and readily seen, it should not be passed carelessly by. There may be valus in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come nuder the notic of the California prospector. These articles will be published under the head of "The Minen's Laboratory," and will be fuund of great value to the mining public. [Mining and Scientific Press, April 20.

Subscribe- - Are you a miner and not a subscriber to the Mining and Scientipic Press? If so, you are an annual loser of many times the price of a yenr's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a rolume of the Piesss, cannot he bought from the shelves of any bookstore in the country for the price of several year's subscription. Ilo you cher send a paper to the "Old Folks at Home?" If so, and you desire to send important infurmation and valuable reading matler, jou can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an aceount. of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their suluscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Prass for three mouths even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant reador of it for even that short perioci.
milining and Scientific ylress.
$5=5$ C. W. M. SMITH and W. B. IWER, ; ; . . . Propriotors



 1'arknss will remember that when we excente eqgavinge we wih hasert
 vertising Jedium to be found mitho country

## To Printers.

Av Intbrast in one of the mokt fonmiking and hemt mying Newspan per onlees in the mountains is ultareis for sate mas caby tarma. A rare ul portimity is lereby presented to tey priutor destrous of ertabinhing himfut mountain towis in tho state. For furthor iuformation enquiro at this antion.

## MINING AND SCIFNTIFIC PRESS.

THE ONLY MINYNG, MEICHAXCL AND SCIENTIFIC PAPER ON THIS CONTINENT.
THIRD YEAR: VULUME VI-NEW SERIES:
A new volume of this oxtenswely sirculited paper crimmeneed fept. 11, 1862. It in intended that ovry bumber shath be replecte with information with keveral oriyunal engraviags, ol'nuw inventions, etc., preparol eapresbly for its rolunnos.
This batere is devented to the nbove pmrposen, tegnther with tho intrereater

 thformatiou to asy paper yot puldisliced.

## The Mining Interest!

Will find it of great value, as it will contain all the nows anpertaining to
 to the DLiser.

## The Inventor !

Will find it an excellent medum for the purpme of bringing his invention uto untice, of ascertaining the progrege of invention in this and nther
 in oht:ining his montent, the proprictor having luat great expericncy as a
ratent: Agent, together with fucilities at Washiugton that cauble bin to ob Patent, Agent, together with
ain P'atents with dimpateh.

## The Mechanic and Manufacturer!

Will be greatly benefited by its perural, ns rach number will contaun sera
eral origival engracings of new machines and iuventions, tugether withy arge amount of rualing mater appurtaining thereto. We are comstautlo recriving the best seichtifice journals from all quarters, from which wr thall continue to extract whatuver may be of benefit or illterest to ou

## To Chemists, Architects, Millurights and Farmers I

 This jnurual will bo invaluable. All new discoveries in Chemistry will he gives, ant a lirge amount of information of great serviee to Archuteds and Sillwrights will be found in cur columus, The Furmers and Planters willnot be neglectel, engravings will be given of ngricultural implements, aud not be neglectell, engravings will he given of nericulta
the farming interest genernlly will beamply discushed.

Terms.
To mall subscribers :-Four Dollars por unnum.

```
Club
ins. \(\$ 8\).
```

Five Copies for Six Months, $\$ 8$.
Ton Couling for Six Months, $\$ 16$.
Ton Conins for Six Months, 816,
Ten Copims for Twelve Months, $\$ 30$.
Ten Conims for Twelve Mumths, 830.
Fifteen Conies for Twelve Montlas, 844.
Firteen Copies for Twelve Montlos, 844 .
Twenty Copes for Twolve Montbs, $\$ 56$.
For all clubs of Twonty and over, the gearly subscrintion Is nnly $\$ 880$
Names can bo sent in at different times and from different Post-oficos Specimen copies will be sent gratis to any part of tho country.

HWLER \& SMHTH, Publishers,
Room 27, (formerly) U. S Court Builling, Corner of Washingtcn and Bo ery strjets, Sau Franclsco.

Our Mint, its Rules, Charges and Op
For grating silver from golld when gold
is beluw 300-1000this. fine . . . . . . . . . . . . . 3cts per 0 .
" from 30-100ths. io $750-1000$ ths fine. 7 ets" " oz 750-1000ths to $950-100$ ths " 14 cts
Dipposits Sllyer Buhion-Purciases.
$\$ 1.21$ ner standard ounce $1 / 2$ per ct. on gross value of all gold contrined for coinage.
Refining charges (ouly where gold is contained) proportion of guid 1 to 300 3ets. per oz. gross weight

301 " $500,7 \mathrm{cts}$,
Deiooits for Fine Bars
\$1 16-4-11ths cents. per standard ounce, $1 / 1$ per ct. gross value of silver for making hars; also when gold is contained Is per ct. on gross value of gold for coiniug. Retining charges as in purchases.

## Bars Sold From Refinery.

$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Imposited for Dollars.
\$T 16-4-11ths. per standard oz. 1 º per et. gross value for coiving, when gold is contained, refining charge the same as in purchases.

Deposifed for Impontrd Bars.
\$1 16-4-11ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for making bars.

THE MINERS＇I．ABORATORY．－NO．III．
We closed our chapter under this head for last week some－ what abruptly while discoursing upon the＂Peculiarities of Quartz Veins．＂We have stated that these veins are usually found in＂setts＂or clusters．California is no exception to this rule．The general direction of the older class of quartz veins in the auriferous districts on the western slope of the Sierru Nevada is north and south ；the east and west se－ ries of veins is nore recent and may be called secondary． Mr．Remond of this city，whe has paid much atteution to the geology of the quartz veins of this state，remarks that ＂the metalliferous character of the secondary quartz veins is wortby of note．They bear gold，often in a chrystalized form，which is very rarely the case in lodes running north and south．The numerous threads or minate veius crossing them contain much galena，in small leaf－shaped masses，and sometimes in cubic chrystals，with more or less silver．These lodes als？contain much white iron pyrites，with some arseni－ cal and copper pyrites．＂The following paragraph，which like the one above quoted，was written some two and a half years since，for $I$ Echo du Pacifique，and prophet cat the time，has since been fully veritied by actual discc⿱⿰㇒一十凵夬eries．
＂The combinations of these different metals suggests the possibility of the discovery of siiver mines．Some speci－ mens taken from the quartz mines of Soulsbyville，resemble the argentiferous ores of Washoe．At Washoe the silver is mixed with lead，iron，arsenic，copper and a little autimony， all the metals being in a condition of sulphurets．At Souls－ byville，the iron and lead predominate，and the other metals are in smaller quantities，with a total lack of antimony．＂
No other portion of the world has been so carefully studied with reference to its metalliferous formations as Cornwall and Wales，and it has been asserted with，much confidence，that a description of these veins would，general－ ly speakiug，suffice for those 0 every other portion of the globe．So far as their direction，length，depth，and dp are concerned，the assumption is donbtless quite correct，but with regard to their contents，we apprehend quite distinct－ ive characteristics will be noticed．No one who has ac－ quainted himself with the quartz veins on the two slopes of the Sierra，can have failed to notice most marked and distinct characteristics between the two．Other peculiari－ ties may be noticed between those and the veins which are found far out toward the interior of the＂Great Basin，＂and others still more marked when we reach the opposite rim of the Great Basin in the neighborhood of Pake＇s Peak，as will be seen from the followiug extract which we gave in our issue of April 20th，from a correspondent of the＇I＇erritorial Enterprise．
＂The Pike＇s Peak ores contain no quartz．They are iron pyrites，more or less mixed with copper pyrites，lead，anti－ mony，etc．＊＊＊On siuking upon this no veinstone what ever is tound．The vein is a simple crevice in the granite bed rock filled with pyrites．＂
In fact almost every vein has much that is peculiar to it－ self．Perhaps the most simple of metalliferous veins are those known as＂gold－baaring，＂and it is to those，almost exclucively，uutil within a short period，that the miners of Galifornia have chiefly paid attention．Until after the won－ derful developments of the Comtsock lead in Washoe，not one prospector in fifty in California ever thought of exam－ ining a vein for uay other＇mineral than gold，which is alwost always found pure and free，and consequently readily known to the most unpracticed explorer．Hundreds of veius，in California，now known to be of the highest valne in silver and copper，were，in the early days of our mining experi ence，passed by as worthless，simply because they did not ＂show gold＂in working quantities．

Very few of our readers are ignorant of the ordinary in－ dicatious by which the probable presence of quartz veins is noticed，or the manner usually employed in discovering theirlocality，or tracing their direction whenever found； hence we will not weary their patience by giving details so generally known．

In examining into the phenemena of quartz veins on the Pacific Slope，it should be borne in mind that but limitod time bas elapsed s nce the first．efforts of mining were undertaken here．On the eastern contivent and espec－ jally in Commall and Waken，mines have heon woncht from time immemurial，and yet scarcely a year passes without
adding some new fact to the great mass of information al－ ready stored up，by the generatious who have lived and died in studying the theory of these mines，the details of their structure，the relution of those veins to the various ores which they contain，and to the enclosing rocks，etc．，etc．
Many of our citizens complain of the apparent dilatori－ ness of our State Geological Survey，from the fact that our miners are not already put in possession of facts for which English miners have patiently waited whole decades，and for which the English Government has paid an hundred fold more，than our Commission has yet asked for．Such persons cannot be aware of the difficulties and labors at tendant upon the solution of the various problems present－ ed in the investigation of so complex a subject as the study of such a wide and varied mining field as is found near and within the boondaries of the State of California．

## the grology of copper．

The recent discovery of numerous and valuable veins of copper，throughout，pretty much the entire levgth of the ：tate，and the consequent especial degree of attention which is now being drawn to this new interest，has induced us to vary，to a certain extent，what would otherwise have been a natural procession of subjects，in such a series of chap－ ters as we have commenced．And in accordance with un－ $m$ rous requests to that end，we shall＂interpolate＂whater－ er number of chapters，may be required to place before our readers all attainable inforriation on the subject of copper． which can be of any practical value to prospectors after，or workers in that mineral．In doing this we shall have occasion to repeat，to a certain extent，the material points of some paragraphs wrich have already appeared in previous num－ hers of the Priess．
In referring to the geological conditions under which cop－ per is found，we shall commence with Cornwall，a district which furnishes nearly one half of all the tin and copper produced on the globe．The rock in which the copper bear－ ing ores of this region are found is principally clay slate，or killas，as it is there termed．The country，however is much broken up and diversified by obtrusive granites and elvans， which have been protruded through slates by igneous agen－ ces from below．The general direction of the copper veins is east and west，and nearly at right angles with the tin lodes．The ores of copper and tin are seldom found in the same vein in Cornwall，and neither metal is often found in very great abundance at a le－s depth tuan 80 or 100 feet be－ low the surface．Some copper veins in this district have been traced several miles－in one instance seven，without any evidence of discontinuance even at that point．No per son has ever yet seen the bottom of a vein of either tin or copper．The ores found there are usualiy the yellow sul－ phuret of copper and iron，with which are associated at times，black，and gray sulphuret，red oxide，and native cop per．The general average of there veins is about $21 / 2$ per cent．，but which by dressing is actually brought to about eight per cent．before smelting．
A nover，Letter Carrier．－A curious project has been set on foot for the speedy conveyance of letters between England and France．It is proposed to erect in b．th countries，at a distance of about 10,000 metres from the coasts of Calas aud Iover，a strong edifice of masoury，coutaining a stean eugine of sufficient power，by means of which an inmense wheel， 25 metres in diameter，is made to turn furty times a minute．
By this rotation a seres of wires，forming a gigantic strap extending across the channel，is coiled around the wheel at， one end，say at Dover，and uncoiled at the other，Calais，and conversely．To this strap indib－rubber leather bags are to be attached，which are thus conveyed across the channel at 3,000 metres per minute，su that，within the space of twelve minutes the letters and despatches from one county may be landed in the other．
A Contrast．－How rich the following paragraph appears which was originally printed in the English Quarterly Re． view，in March 1825：
＂We are not advocates of visionary projects that interfere with useful establishmeut．We scont the idea of a railroad as impracticable． ing twice as fast az stage caches．We should as soon expect the people of Woolwich to sufler themselves to be fired of

## THE MINING STOCK MARKET．

The Stock Market both in San Francisco and Virginia has been unusually depressed during the past week，with re－ stricted operations，even in approved shares．Several cars－ es have led to this depression，neither of which proceed，at all，from any lack of confidence in the mines themselves． Speculative operations have not been noticod，in part，for the reason tbat no new developments have occurred，on which operations in this line conld be based．The unasual excitement with regard to eastern intelligence absorbed much attention that would otherwise bave been expended in ＂feet＂speculations；but probably the chief cause of the de－ pression of the week may be attributed to the unnsual strin－ gency of the money market，which has operated，in some in－ stances，so as to seriously interfere with time opera－ tors in meeting their engagements．The demand for money for stoct operations has been exceedingly urgent，as high as 4 and 5 per cent having been offered ou se－ curities of substantial market value．
The present check upon operations in the mining market， is an encouraging indication，rather than otherwise，since it cannot fait to exert a healthy influence upou the legitimate business of mining，by reason of the effect it will have to discourage speculative actions，and，so to some exteut，en－ courage a more rational investment of capital，where it will increase material values．The flow of eapital into the inte rior as material aid for the development of the mines，is daily increasing，and to its tendency in tbat direction，may be attribated，in no small degree，its lack for speculative op－ erations upon Montgomery Street．The signs of the times indicate a growing conviction，that the business of swapping jackets is pretty much＂played out，＂and that the folly of speculation is fast passing away and giving place to the nore legitimate idea of a permanent development of the mines． The covelusion is now pretty much universal that the mines are not only rich but perwanent，and that a sufficiency of the precious metals may be obtained therefrom by ordinary expenditure and industry，to satisfy any reasonable desires of gain ；and that the most rational way of acquiring a for－ tune is to be content with ordinary risks and reasonable time，rather than to take the chances of precarious specula－ tion，with the hope of winuing a competency in a day or week．

We bear very favorable accounts from the mines of this region．A large amount of machinery will soun be put in operation there．A party of capitalists in this city who have recently sent agents into that region have become so well convinced of its mineral value that they are about to com－ mence operations on a liberal scale，and have already sent duwn a party of working men，with machinery，etc．，from ： which we confidently predict early and satisfactory results． That much gold exists in that section may be surmised from the following transaction which occured there in the winter of＇60 and＇61．
A large amount of snow had fallen and a most severe winter was evidently upon then，with a pretty fair prospecto of a cessation of mining operations until spring．But with the knowledge that the gold was there，it was resolved that Yankee ingenuity and energy could gather it up io spite of wiad or weather．＇The miners went to work aud construct－ ed large sheet－iron tanks，filled them with snow theo melted it and with the small quantity of water thus produced，added to the small natural flows，in some instances washed out as high as \＄16 per day！Thus the element which is generally considered as a pretty effectual extinguisher of placer min－ ing operations was made to furnish in greater abundance the very facilities needed for gold working！The gold of this region is of a very superior fineness－assaying as high as \＄19 per ounce．We trust the expectations of even the most sanguine，with regard to this region may be fully realized．
Incombustible Dresses．－In the Lonbon Polytechnic Insti tution，Professor Pepper has latelyexhibited in a most original and practical manner the relative combasibility of muslin dresses prepared with certain chemicals and drasses not 80 prepared．He brourht forward a lay－figure，attired like a lady largely be－crinolised．A light applied to the skirt of
the dress soos caused the figure to be lost in a pyramid of： the dress soon caused the figure to be lost in a pyramid o of flame，and some of the roore susceptable of the spectators sbrieked aloud at the frightful representacion of a too fequent reality．For the second effect＇a real lady，attired in garments rendered incombustible by prepared starch，walked up and down between two troughs in which naptha，furiously flaming phayed upon her skirt nuscathed．The starch with which thi played apon her skirt maseathed．The starel with which the


## GENERAL MUNIVG STOCF REPORT.

REPORT UF BYOS
At tho San Franclaco Mining stoek Board,
For the werk oralling 3liny 18, 1haz.


1y shlphed. Grw humbed adad bity tens will bef furwartat within tife prees.






The tionen it ateatily wereating tis shipments. The divhteads for the year are niw "xproted to reach about fron $\$ 106$ (13) 125 per fout. Thero is an mollek in the tarkes.
The Joweghlee, on tho weatern exiesnion of the Napmeon, is quotd at $\$ 3=$
From Sevoth crunty wormecive name flatering reports, Very little stock tromin th
hume.

TRANSACTIONS IN SHARES, FOR THE TEEK

Ophir- 12 shares at $\$ 25550 ; 12$ at $\$ 2500$ s 30.
Giculd \& Curry-10 at 36.10. \{Chollar-80 at 475
Nurth 1'otusi-20 at $45 ; 10$ at 50 b $30 ; 5 \overline{5}$ at 45 ; 25 at 42 ;
Burning Moscow-60 at 155 b 30; 20 at 150; 20 at. 1621 b $30 ; 20$ at 160 b $30 ; 16$ at $14 \overline{0} ; 10$ at $100 ; 20$ at 130 b 30 ; 4 at $120 ; 10$ at $125 ; 10$ at $104 ; 30$ at 115 b $30 ; 50$ at 105 ; 3 at 110; 23 at 11216
Juruside-5 at $47 ; 10$ at $48 ; 20$ at $51 \mathrm{~b} 30 ; 20$ at $46 ; 10$ at $52 \mathrm{~b} 30 ; 175$ at $45 ; 20$ at $42 ; 47$ at $40 ; 10$ at $40 \mathrm{~b} ~ 30 ; 25$
at 50 b $30 ; 60$ at $48 \mathrm{~b} 30: 10$ at 48 b $30 ; 10$ at $481 ;$ b 30 ; 17 at $30 ; 100$ at 3 ヶ'1. b $30 ; 21$ at $39 ; 10$ at $38 ; 10$ at $3716 ; 5$ at 36; 20 at 43 b 30; 110 at $40 ; 10$ at $36 ; 100$ at 34 s 30 ; 169 at 3620 at 40 b $30 ; 225$ at 35 s $30 ; 15$ at 36 .

Lady Bryan- 10 at $10 ; 10$ at $9 ; 6$ at $8 ; 57$ at 7; 15 at 716
Braljazette-20at 30; 20 nt $30 ; 10$ at $30 ; 32$ at 32.
Iowa-10 at $125 ; 10$ at 150 b $30 ; 10$ at $140 ; 15$ at $140 ; 10$ 13.5.

Falls of Clyde-10 at 12.
lale \& Norcross- 10 at 900 . 10 at 81.10 at 82300
Madison-80 at 25; 10 at $521 / 210$ at 25; 30 at 141
Norton-200 at 21 b 30 d; 25 at 23 b $30 ; 50$ at 223 ; ; 10 at $19 ; 35$ at $19 ; 5$ at $18 ; 5$ at $20 ; 50$ at $181 \%$ b $30 ; 15$ at 19 ; J) aney-20 at 380; 8 at 370; 614 at 370 (c) 380.
liultion (Gold Hili)-10 at 70 b 30 .
Sierra Nevada-l0 at 56. \{South Burnside-50 at 71/2.
El Durado-5 at 100. \{ Meredi:h-50 at 45.

## Emeralda stocks.

Wide West-1 at $\$ 350 ; 1$ at $\$ 300 ; 3$ at $\$ 315 ; 6$ at $\$ 300$; 2 at $\$ 330$; 10 at $\$ 351$, buyer 30 days.
Silver Hill-25 at $60 ; 40$ at $61 ; 10$ at 64 b $30 ; 10$ at 65 b $30 ; 10$ at 64 b $30 ; 25$ at $55 ; 40$ at $56 ; 20$ at 57 ; 10 at 57 ; 40
Red, White and Blue- 10 at $16 ; 10$ at 18 .
Pond-25 at 40 b $30 ; 8$ at $40 ; 10$ at 55 b $60 ; 20$ at 35 b 30.

St Louis-50 at 31/2; 100 at 4 b 30; 50 at $31 / 2$.
Bodie, No. 2-25 at 31/2; 10 at 31/2.
Rochester-10 at 17 1'.
Bamboo- 2 at $50 ; 5$ at 55 b 30.
Bodie, Silver Hill-150at \$1/2.
losephine-10 at $\$ 25$, buyer 30 days; 20 at $\$ 24$, buyer 30 ldays; 10 at $\$ 26$, buyer 30 days; 20 at $\$ 24 ; 10$ at $\$ 22$.
Empire-4 at 40; 10 at $2 \overline{3}$.
Union, Ru*s District-20 at $\$ 2 ; 85$ at 2.
Coso-5 at 19; 25 at 25 b 90.
Will ws Springs-20 at $15 ; 20$ at $16 \frac{1}{2} \mathrm{~b} 30 ; 20$ at $14 \frac{1}{2}$; 10 at $14 ; 5$ at $15 ; 10$ at $16 \frac{1}{2}$ b 30.

Laurel Hill-20 at $\$ 81 / 6$.
Melloues-20 at 1118;5 at 125; 10 at 135 b 30; 6 at 160 $30 ; 6$ at $127 ; 10$ at $1321 \frac{1}{2} ; 5$ at 131.
Pioncer Quicksilver- $2 \overline{2} 0$ at 10 .
Pioncer Quicksilve-2 2 at 10 .
Mina Prieta, Mexico-10 at $\$ 140$.
coprer stocks.
Napoleon-5 at \$50;20 at $\$ 70$, buyer 60 days.
California Smelting Works-10 at 45.

## btock bales in virginia City.

Belvidere-6 at \$20. \{Bloomingdale-25 at $\$ 51 / 4$
Branch Mint-35 at. \$1. \{ Costa Rica-50 at 5.
North America-10 at 181/2;5 at 121/2
Latham-121/2 at 7; 151/2 at 9; 121/2 at 121/2
Marengo-10 at 12; 40 at 10; 100 at 10.
Burnside- 20 at $35 ; 10$ at $35 ; 50$ at $100 \mathrm{~s} 60 \mathrm{ds} ; 10$ at 125
Greneda- 150 at 2. $\{$ Santa Rita-10 at $471 / 2$.
Texas- 50 at $\$ 13 ; 25$ at $13 ; 25$ at 15.
Bella Union-30 at $\begin{aligned} & \\ & 6 \\ & \text {; } 25 \\ & \text { at } 6 . ~\end{aligned}$
Grass Valley and Napoleon-10 at 9.
Ponce de Leon- 25 at $10 ; 400$ at $9 ; 10$ at 11 .
Sutro-16 at $15 ; 10$ at $14 ; 10$ at 15 .
South Buraside 20 at $9 . \quad\{$ Santa Fe-10 at 35 .
South Burnside 20 at 9 . $\{$ Santa
Champion- 50 at $371 / 2 ; 100$ at 25 .
Champion- 50 at $371 / 2 ; 100$ at 25.
Wide West- 10 at $16 ; 10$ at 20 .
Triton-200 at 22 1 . $\quad$ Cornwall-10 at 5.
Fureka-5 at 20 .
Raljazotte-200 at 19.
Stepheusou-Kehue-10 at 25.

## WASHOE STOCK REMARKS,

Fur theweek endiog May 16, 1863.
Tho Stock Sarket at firg inla City dirgog the past week, bas been unu:
 fintil a welopmethes at the thines to cacte atheetion, and benee the usual
 mand. Thero lias henth mme litto elaquiry for Yellow Jacket and Priveoss at fi川ld HIll, at a slight nalvance.
Wir whfer uur riaters is the "tislex at the Virglnia stock Doards," and to our resular Virginia dity btock liint. Thu lattor moro aceuratsly roprenente the markie retes at Virgina, and is currected up to Friday precuding our
day of publicablon.



There has been less activity in stocks duriug the present than the wock previous. This fact is probably moro attrobutable to the over excitemeat in relation to the war news than any want of confidence in the mines. The developments made would seem rather to olicit greater activity than do liue iu the market.
There Las been a klight decline in Belcher, owing to there haviag been an assesment of sles per font levied on the stocks, preparatory to the prosecution of a certain sult with the Koh-i nuor.

## ESMEREADA STOCHE LIST.



## REMARKS

A large amount of business has been done during the past ten days in Esmeralda District in the purchase atd sulo of mining stocks. The advancu in srevertl claims the past few days has been caused by actual develomments of a rich character.
Mining of asubstantal character is being prosecuted with vigor and there ns nuw umor work being done mon the varions lodges in this Distriet than at auy ficriud sues the discuyery of the mines.

## LIST OF MINING COMPANIES HAVING OFEICES IN SAN FRANCISCO,



## MININGANDSCIENTIFICPRESS

Voloanio Smelting Furnace.
 If watily weypre in a volanhor fortin. iom wrating will to nslowed to arect a trialfur-



New Style of Lady's Buckie. SOHM, INVENTOR \& PA'TENTEE



turwhiou having hect earofully examined at the o Ullice, has beran witudged to be a unerful inprove elta all outher buekels is
forulates, Streagh and Appearance.

G21 Wasbinglon street, sun Fraucico



ry Bucklo mold will bo guarantew as to its stteng

EANDER RANSOM,
Civil Engineer AND
SURVEYOR,
been connected with tho public works ollos state of (Hhio for 20 years, and he publ
noys of the State of California for 7 years. ALSO
tate locating agent.
And as such having the salo of
ACRES OF STATE SCHOOT LANDS,
he the low price of $\$ 1,25$ per Acre. rms-Twenty por cent incash and the balance aricrelit of several years. f Montgomery aud Califoryiastreets. oe7. -3m

IAYNES \& LAWTON, mportces and dealers in

CROCKERY, GLASS WARE,
RENCH CHINA, oal Oil Lamps, Table Cutlery, CLOCKS. ilver Plated and Britania Ware ETC., ETC., ETC.

NO. 516 SANSOME STREET, [CORNER OF MERCIANT,]

San Frascisco.

Mining and Stock Exchanges
Mining Stocks of All R゙inls Burgh \& Sold. Bunuper connected wilh Mining starke nt every theserip.


FREDERTCK MANSKLL,
MECHANICAL © ARCHITECTURAL

No. $4 \%$ Califurnia street, cornur of Lulddarf.
Drawluga no vodes made for parties applying fur pa


FULTON FJUNDRY \& IRON WORES HINCKEEY \& CO.,

Steam Engines, Quartz, Flour and Saw Mills; Cast Iron Erowts, for Bulimintis, Mining I'uares, and all kinds of Machinkey, Etce, FIRS'I STREEET,
Between MLLREGT AsD Misulus...
** All kinds of ikon ang bleas Castings furnishen at sinst notice. Every stylu of Fisminise to Iruu when
 D. B. Hinckley. Wh. E. Wokti. Wa. A. Fibld.

WANTED,
$G^{\text {ULD QuARTZ Sutiabieffor }}$ CUTTING JEWELRY,
by frontier a. deviercy,
13 ap 487 Piue alreot, San Fraucieco.

## A. ROMAN \& Co., Wholzans asd Rital

Book Establishment 417 and at19 Montgomery street, SAN FRANCISCO.
Orders respectfully solicited and promptly attendeñ to.
 eril anil particutur Metanlurgicil Oyerations, Etc
Etc. By Frederick Overna.u. A Manail of Me callurgy,
Chemistry of Jutuls.
Records of Miniug und Metalurgy, or Facts and Mem-
 By James Phillips and John Darliugton.
anual ot Mutallurgy, more particulicty of the tanual of Mutathergy, more particulirly of the preciou
metais; but inglud ius such olhers as are metals: but includ ing such others as are cmpluyed Piggot ou the Chemistry and Mining of Comper. Practical Mineral Assaying nud Miving, Over man.
Gold Sjiniur and Assang Gold Miniug and Assaying, by Phips,0
Miuers' Companion and Guide, compiled by Silversmith. Miners' Companion and Guide, compiled by Silversmith,
Assayers' Guide; or Practical directious to Assuyers, $\$ \mathrm{Bi}$ Assayers Gulde; or Practical dir
ners suld smailuers
Practical Assay ing, by Micholl.
Practical Assiying, by Micholl.
ilver Ures aud siver Mines, by Pro. Blako
Ure's Dacthoary of Arts, Mlacuractures and Mines. Weisbach's Mechanics of Machiuery aud Eugincering

Together with naany other works in this and simmilar lines
Books imported to order on short notice,
A. ROMAN \& Co.

417 \& 419 Montoomerv Street-

## Gird's Budding Kifife,

THE ATTENHION OF FARMERS, HORTICCLTURTSTS Indements, arers, or manufacturers of Horticulturia
 Press No. 24, vol. V.
State, Terrritory and worksbop rights for sale at rea
 sepl-8m (Ageut for Pateutec,),
San Frulicice

## SQUARZA'S PUNCH

 wholisale and retale,No. 14 Loldosdorff st, ncar Sacramonto

Whe Occidental ILutel
Open for the Reception of Guests.

 eonventence of the public bemeroliy, havian a
and

News stilncl,
CABINET FOル MINERALS;
A Branch telograph omice,
Conacetiag with all the huta throuktoutho country LEWIS L\&LaND \& CO. Proprietors.
San Francisen, Jan. Ist, 1863.
John R. Sims,


Oregon street, between Washingtou and Davis and Fron

$$
\begin{aligned}
& \text { reet, between Washington and Davis a } \\
& \text { and Jacksou streets, SAN Fhascaso. }
\end{aligned}
$$

Manafacturers or Fire Proor Doors and shutters, Bank Vantes, Grating, Gemetary lait
All orders from the interior Urecom, Waslington Territory, Vancouver? 1slaad, Mritisla Colunbua, or any place on the Preife coast, attended to with promptues d dispatch.

Mr. Sims Appreciates the Past
liberal paronnge of his friends, ind trusta that he may
continue to merit it in the future.
For the Informition of Strangers
ho would suy that he feels confilcat that his experi ence in hif particular callug is murpassed by uone on ry town in thisstate, Uregon, also Victoria and the SivedWich Islands, and to be reen on some of the best build-
iugs in San Frapcisco, fully attast. A lurce assort iugs in San Francisco, fully athast. A large assortmea

## To Mill Owners.

Wanten, by a peraun fully competeut to the position,
a situation as Mining Suplinintendeyt in $n$ Gold or couper a situatimu as Mising Supizintendant in $n$ Gold or coppor Mase. T'be Applieant was engaged for about eight years
as Sopermtendent of Coppor Mning Works in Cornwall
 State for the past sereu years. He hat bad much oxpe $\left\lvert\, \begin{aligned} & \text { Sinte for in Dast sevel years. Ao mat bad much oxpe } \\ & \text { rince, in as an Assaycr, a Machineqt } \\ & \text { a Dramsman, u Surveyor and un Asorter of Copper }\end{aligned}\right.$ Ore Ho can give ample testimonies as to his cupacity for thsy pasition he suruks.
Apply at this Olfice.

## W. T. \& J. GARRATT,

 Gity Brass and Bell FoundersCor. First \& Market sts., San Francisco
$B^{\text {abbet mitral castings, fire enginds, force }}$

Gauge cocks, Cylinder cocles, Oil Gitobey, Steatn Whintles,
HYIHAULIC PIPEs and NUZZLE for MNING PLB-
PUSiS, lron steam pipe furuisled with littings, ecc, GOUPLING JOINTS OF ALL BIZEs. Manulucturers of "Ga ralt'a Patent Improved Jouraal Motal.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultural state faik FOR 1862.
ALSO; FIRST PREMIUM
At the San Francisoo Bay District Agricultural Fair, 1802
Manufactory, wiolesale afd retall,
No. 44 Keidsiorfr street,
Opposite the What Cheer House, San Francisco.
LATEST IMPROVEMENT
in Ladies' Buckles:

 deaters 111 Jewelry, that he hus mituo mportant improve
ments in BUCKLES, which surpass may und all heret ments in BUCKLES, Which surpass any und all hereto beauty render them the nost useful as well as ornamental trinkers.
Orders trom the country respectfully solicited. For
particulars call ator addreas, FREDERIK HEICHCL particulars call at or addreas, FREDERIK HEICHCL, 62n Merchunt Btreet, San Francisco.

TO OWNERS OF WATER-POWER

Beth's Eydraulic Pressure Wheel.

## THE SIMPLE, COMPACT, STRONG AND

ffective manner in which it is apphod to any hoight of fill, ( 3 foet to 300 .) and to any kiud of mactinery, wat Save in Transportation Materint and lahor, from 25 to 50 jer cent. of the entiro cost of tho Structure to which it is applied, and propor-

For full Information frum the laveutor, apply at the Miners' Foundry, Irom 10 to 11 A. M., or address
J. M. BETH.

Miners' Foundry, San Francleco.
202. This Wheel is fully cuarantike. Janle-if

## Agency For Patents.

THE UNDER:IGNED having been long established in the Patest Agency Business, aud having favnrablo at the Patent unice in Washington, offrer then serviecs for the securing of Caveats and l'uleuts also, will atton to the sales of Pateat Rights, and to all soatters


Ofice 410 \& TIFFANY,

CHARLES R. BOND, (Iate City and County Assessor.)
REALESTATE AGENT,
No. 410 Montgomery street, San Francisco.

Real Eatate Purchased and sold, and Loans Nego-

50 lbs MARINE and
Fire-Proof Paint,
ManUFactured by the paciric metallitaical Works in this city, tor Hulls and lecks of Vesselm, tharge abd six other Mineruls. When uked ont the Decks or Butinms of ships, it is equal to a coat of Stone, and quite equal to Copper, no worms will ever offect it, and
cheaper thau any other paint.

## DIRECIIONS :

For Decks of Sbips, use two parts Mineral Paint, ene
part White Lead, Huxwith Linseed Oil. part White Lead, Iuxwith Lisseed on.
For Botioms of Yessels, uso one part ground sulphur
threo parts Mineral Paint, mix wath Cosi Tar and ayply threo parbs Mineral Paint, mix with Cosl Tar and apply
it hot. For sale by allSLip Chandlers aud Tradeamen, in boxer of 50 Ibs . eith, or by the Iacific Metallurgical Works.

## 35 POUNDS FLRE-PROOE PAINT.

When used on Roofs, Buildinga, or Fencen, it is equal to coveriug them with a coat of Stoue, bemg perfectly DIRECTIONS:
HOUSE :-Mix thr ee parts Mineral Paint wlth one par white lead, thiu with Liunsed oil: if a lighter color fo wauted, mix less paint, more lead. ROOF:-Five parts of Mineral Paint, one part white Lead; mix with Linseed oil. Put it thick on a tin Roof an coat when properly appliedwill last three yeara.
G. T. FOLQUE, Superinteudent.

WORKS, North Beach; Office, 318 Californix st, Snn Franeisco.

## WRIGHT'S PICKS.

John wright, of Sacramento, has establashed hmsself in sau Francised for the manufacture of every doscription of 1 ICKS, of the best material, at reducod prices. Pick Eyes of the beatiron furuished in any quan tity, at low rates Orders from the country promptly at tended to. N. B.-None geruino unless stamped with my uame. JOHN WRIGHT, 511 Market street,

Oppositu Battery, Sun Frazicisco.

## REMOVAL.

OFBICE OF THE PACIFIC MEETAL lurgieal olloe is removed to 318 Califorbiastreet
ing enlarged our Works at North Bencla, we rre now enabled to reduce from 10 to 15 tous of Silver or Guld rock por clay.
Liold and Silver ore, and Sulphuret Assayers', or S11 versmiths' sweepings reduced or purchased.
COPPER OBLE-Higheat markct rates advancod in cush, for shjpuents. S. C. BRADSijAWW, Agent,

## SPECIAL. NOTICES.

Onfice of the Table Mountrin Copper Co.
An assessmedt of Twenty-Ave cents An assesstrent of Twenty- © Wive cent to prer chare was co.
day levied upon the canital stock of this Cormpany thyy day levied upon the capital stock of this Crmpany, pryy-
able immediately, iu gold coiu of the United stiates, to the eecretary, at the office of the compayy, No. 628 , Montgomery stivet.

| San Francisco, may I8, I863. G. ELMORE, Secretary |
| :---: | :---: |
| Im |

The Annual Mecting of the stockhold-
 ot the Ofice of the conpzany, Nu. 328 Montgomery street San Francisco, May I8. I863. M. ELAKURE, Secretary $\begin{aligned} & \text { td. }\end{aligned}$

Offee or the Nevada Copper Mining Co. March 24, , dske. At A A maeting of the Board of Trustes.
heth
his herh bis day, an assegzment of Forty Cents per share
was levied upoun the Cavital Stock of the Company, payWas twentypout tents per share willine thirty days, pand tweuty ( 20 ) cents per siare withio sixty days droms, this
date, to the Secretary date, to the secretary. By order of the Trustees, Ofice of the Tennesee Gold and Silver
Miniug Companty, No. 7, Hontgomery
ing of the Boarti- of At a meet. ing of the Boaprd of Trustees held Aprii 22,1883 , an Ascapital stock of said Compaly was levied, pasable on or betore Salurday, the 23 d d. diy of Muy, 1866. San Francisco, April 27, J. H. BLUOD, Secrelary.

Office of the Sun Francisco Gold and Silver Mining Company, No. T Montg mery Bhick-At a meeting of the Buard of Trustess, held April 20 , Ru As-
sessment of Une Dollar ( 31 per share on the capital seesmenet of Une Dollar (\$1) per share ou the capital stock of this Company was levied, payable on or be
fore TLursday, May 21, 1863. San Francisco, April 27, ${ }^{\text {J. }} 863$. H.

| [ma2t. |
| :--- |
| matry |

Office or the Sam Pateh Gold and sîlver ming of the Banry of Trustees held March 30, 1863, an Assessment of Fifty Cents, ( 50 cts.) per ellare on the capital stock of kaid Company was levied, payable on or
before Thursdiay, April 30, 18663 .

Schmeltzer Gold and Silver Mining Compauy, -At a maceting of the Bard of Trustees this Company, held Aprll II, I863, au ussessment of 26 conts per share was levied, payable in United States coin, to the Secretary, at the office of the enmpady, No. 80031
1863. ${ }_{\text {ap } 20 . \mathrm{Jm}}$
M. G. ELAORE, Secretary.

## To Mine Owners.

PARTIES having a Good silvex Mnne fachinery to wo Willdo well to anply at this office. No organized com-
pany need apply.

## T. C. Sa nborn \& Co,' STOCK BROKERS, <br> No. 630, Montgomery Street.

$\mathrm{O}^{\text {Peir sllver hining stock, }}$
GOULD \& CURRY MINING STOCT, chollar miting stock, CALIFORNIA StEan Navigation Co's Stock, BOUGHT \& SOLD.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged by all who have examined the prineiples and wituessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The most important principle councted with the opeprocess from thit of extractiag the amalgan from thic pand. The chier cause of toss of the prectous metuls urises from the passing off of the samo in combination with the quicksilver, during the pruces of trituration, aud in cleaming up. By che introductiou of the separating Pau
to follow the trituration this loss is entirely aroided. In workiug these muchines stere is Do appreciable loss quicksilver, und hence rone of the precivus metals. Where thess pans have been introduced and operated by the side of others on sands frow the same vit, the
Wheler Paun bave uuiformis gaucd in large percentnge Wheler Paus bave uvifurmly gaucd a Inrge percentage of metals orer its compctiters, as well as a still larger
perceutage iu the amout of work performed. -*: These Pans man be seen in daily operation, at tho Miner's Foundry, on First street in this city, where all intercsted are invited to call and examine for thenselve no16.ti
zENAS WBEELER.
A. C. MORSE, Mining and Roal Estate Agent, Orfes-S. W. corner Pine and Silver sts., Aurorn.

H wivg made artangements
 and CELLL every desurption of diuing stocks in Esume-
ralda District

Pacific Mail Steamship Company.
NOTICE.

A RRANGEMENTS HAVEBEEN MADE Gold, Silver and Copper Ores
ean be forwarded under through Bills of tadiag from San Francisco to England, at reasonible rates. For fur ther particulars apply to A. B. FORBES, Agent,
28.tf Corner Secramento aud Leidsdorft streets.

## P. M. STEAMSHIP COMPANY. NOTICE

Jntil furthex notice, the Steamers of
Prcfic Mail Steamship Gumpuny will hereafter be pched un the
$3 \mathrm{~d}, 13$ th and 23 d of each month.
When any of the above dat sfail on Sundny, the steam or will be daspatched on the following Monda,

## Wm, P. TAAFFEE,

IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Fromt and Sacramento streets, San Francisco.

NATHANIEL GRAY, General Furnishing Undertaker, 641 sieramonto st., Cor. of Webb, Sax Franeicto.

Percy Douglas,

> IMPORTER OF

CROCKERY,

## FRENCII CHINA,

Glass Ware, Etc., Etc.

No. 421, MONTGOMERY STREET. SAN FRANCISCO.

## DONAHUE'S

Union Iron and Brass Foundry,
Corxibr of Firat and Mission Streets, San Frangisco The Wirst Jstablished in the State.

M ANUEACTURE STEAMENGINES, uarta stamners, Grest Mill Machinery, Boilhrs cuarta Stampers, Amalgamators, etc., etc., at reduced
prices. Mave bus the largest and best nssortment of
Gear and Machinery Patterns in the State, an lint of which will bo forwarded to suyone desiring it, free of

New Patent Agency.
WE RHAVE CONNECTED WITH THE

## The Patent Agency Business,

And would invite Inventors and Discoverers on the Pa cific ceast, who wish Dikpatch as well as Economy to call
upon us. We bave an Fxperiencell Agent nt Washig upon us, we have an kxpcrienced Agent at washug
ton, which, togother with our owu experiencu of several y ears, renders the

## Mining and Scientific Press Agency

The most desirable place to make application for Letter Pateut on the lacifie coast. Apply at Pateut on the Paciue coast, Apply at
office of the "Mining and Scientitic Press," Room No. 27 , Foreral Buildog, corver of Battery and Wash ington streets, (directly opposite the Post office, ) sa
Francisco. Francisco.
FOREIGN PATENTS OB'AINED
By application at this office, Room 27, Federal Buildin EWER \& SMITH, Solicitors,

NOTICE TO INVENTORS. nventors wisbing to file Caveats should apply at thi Omce, Koom No. 27 , Federal Building. Terms mone.
Eiver \& SMITH.

PATENT RIGHTS
Patent Rights Bought and Sold, Af the ollice of the "Miniug and Scientific Press" Agency
EWER \& SAITH.

TMPORTANT TO INVENTORS.
Inventora who obtain their Patents through this Offec can have their Inventions illustrated and described it the columns of this paper Frase of charge, they merely
furnisling the engraviugs. We are also prepared to fur nish engravings at reasniablo rates. Those whis do no eare to go to the expense nf having engravings proparen
can have therr ibventious fully noticed and deseribed in our colvmiss, free of clarge. The free use of our colpublic will be found a most important adrantige to in ventors.

EWER \& SMITH.

## P. M. S. CO.

PACJFIC NAIL STYAMSHIP COMPANY'S Poad with tine sitemeres ol thic dtlautio und Yacind Steamaship Company at Aspinwall. FOR PANAMA.

The following Steamships will be dimpatched in the moutil of Muy, 1863
May 13th, - - - - Steamer Orizaha
May 23d, - - - Steamer Golden Age.

Will leave Folsom Street Wharf, with Passengers and Treasure, for Yuдama

AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railroad, at Aspmawall, with
teamslups for New York.
For Freight or passage, apply to
je4 Cornor of Sacramonto and Leidesdorif sts.
Miners' Foundry
MACHINE WORKS,
First St., between Howard \& Eolsom,
SAN FRANCISCU.

F Very bescription of mon and brass machiFA pery, the Best and Binst Economical, manufactured in the state of Calitornia, whll be furnisbed with dis
patch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flower, Saw and Ouartz mill machinery, Mining Pumps, Amalgamatorr, Retorts,
Etc.
Eic.
Particular attention will be given to the manufacture of Machiuery in Sections, desiyned for places of diftenlt
accuss. Varioun mudels of Quartz Crushers, Amalgamators and Water Whecls-sume in operation and ou exhi-
bition.
${ }_{*}^{*} *$ Parlies desiring to test their ores practically, it small quantities will be aliorded ample facilities, free
All parties desiring accurnte and highly fuished traw ings and Superior Machinury, at mosi reasolabie rates
are cordinlly jovited to call before contracting elsewhere. HOWI.AND, ANGEL \& KING.

PALMER, HANSCOM \& CO., GOLDEN STATE IROH WORHS

No. 19, First Street, San Francisco, Furnish Castings and Machinery of all kini

Genuine White Iron Shoes and Dieg. palmer, hantscomb \& Co.

## To Quartz Miners.

## K.nox's Improved

AMALGAMATING PAN: WITH
PALMER'S PATENT S'CEAM CHES'
$T$ CIE ABOVE COMIBNATTON SECURFS THE MOR
 nomical mar ner, while it is neculiarly nunpted to catcling - . llonting gold and Eilver, kuowa to bo othe
wise lust wise lugl Mado exclusively hy paliver. HiAnscom \& ro, Nos. 19 \& 21 First Strcet, San Fracciso

The public are informed that Loters Patent have lei grauted the underignec upon stemm Chest Faleo Bi Coms frir the inside of Amalgamaling Pans or Tinb, nre cuutioned against makiug, buyiug, using ar sellif
tho same without his conseut.
WV. A. DALMER.

## VULCAN IRON WORKS 'CO,

## P. TORQUET

MANAGE]
R. IVERS. C. R. STEIGER. S. ATTKEN.

## Steam Engine Builders,

Eoiler Makers, Iron Founders and Gel eral Engineers,
Nos. 137 \& 139 First Streat, … . San Francise Stearbcat Machinyrt built and repairod; also Sa Flour und Quartz Mills, Pumpiag and Mining Marlinor etc.,

Proprjeters of Morse's Patent Fire Gratesa Jofyal, Fournmytok and other Turbine Wuter Whee. with latect improvements.

## DEETKEN'S

Chemical and Metallurgical Wortr
On San Bruno Road, Islais Creek,
GOTD BEARING SULTHURETS WORKED AT RRA


 mermeet hads at a cost of $\$ 60$ to $\$ 100$, if desired
inll uwnets. No power nor clean water required : he purpose.

## LEWIS COFFEX AND RISDON,

 STEAM BOLLER AND SHEET TROThe only exclusively Buller Making Establisbment Boiler Mukers. All orders fur New Worls, the repairi or Old Work, excented as ordered, and warranted to quality.
Old Stand, corner Bush and Market Street EWIS COFFEY

JAMES PHELAN, (Late J. \& M. Phelan, )
IMPORTER AND JOBBER,
Wines: Liquors, Etcy Etc

$$
\text { Nos, } 616 \text { \& } 618 \text { Front street, }
$$ Betwech Jackson and Pacific Streets Established 1849 .

All Goods Guaranteed. Orders Solicite terms liberal.

Jau. 1-tf.
「HEODOR KALLENBERG
Maker of Models
FOR INVENTORS.
Machinfs, Mathenatwal, oplical and Philosnt imps, Des and Die sinking, Finbossingsitamplis.
Remuing of Machinery promptly attended to. No. 4 Sansome gitrect, corner Diarket Sun Frnuececo.

SPECIAL NOTRCE.
Wo wish it distinetly understond that all the interest hich Julius Silveramith ever had in the Mining and Scienfre I'mss, ceased in Nuvember of 1862. Ewer \& Smita e now the publishers and proprietors.
he copper mines of calaveras county-inTERESTING LETTER.

Copperopolis, Cat.., May 20, 1863.
Mr. Edrtor :-I propose giving a few items from the Coper Mines of Calaveras County, which may interest those your readers who have faith in this class of mines being rade productive in California. There are many Californins who think that mines of copper can possess no value unFss the ores are fornd in concentrated lodes. If the people this State would only devote a little time to reading the port of the English copper mines, they would soon find at that concentrated lodes of copper ore are very rarely und, and that copper lodes do not produce one third cop or ore.
The principal copper mines that I have visited in this punty are the Union, Keystone and Calaveras at Copperop is, and the Napoleon of the Gopher district. Not yet havg bad time to visit other mines in those localities, I can ot speak of their real worth, but report says there are quite number of good prospects in the vicinity of the mines entioned above.

## the union mine.

This mine is not surpassed in richness by any other copor mine in the world, as far as developed. The Company ave developed their mine about 600 feet in length, and ave three working shafts, 180 feet deep, and an engine up Heach one. The lode varies in thickness, as all lodes do, om one to twelve feet, and will produce about 10 tons of per cent. ores to the fathom ( 6 feet square). Two ousand tons of this class of ores could be easily taken om the mines monthly, by 100 miners; and this indepenpat of a large quantity of 6 per cent. ores, which are mixed ith slate, mundic and sulphurets of iron. These poorer es can egsily be concentrated up to 18 and 20 per cent. ee, the sale of which ought to pay all the working expenss of the mine. This company have now on the surface p,000 tons of 7 per cent. ore, ready for concentrating, Id have not yet stoped a foot of ground. The galleries on which this mass of mineral has been taken comprise a mear extent of 600 feet. Persons acquaisted with mining perations can readily calculate the number of tons of ore hus diveovered and proved. I believe 300 tons of ore is pout the smount of their present monthly shipments, hich is loss than their waste ores could be made to proıе.

## THE KEySTONE MiNE.

This mine joins the Union on the East. The Company as a very fine lode, which can be easily traced the whole ngth of their claim.- 3300 feet. They have two working rafts ; one 260 feet deep and the other 140, located upon
each end of the mine. The lode in these shafts looks well. At the depth of 260 feet they havea fine lode of concencent. as it form the mine. The was that has done ty, has cost double what it ought to have been dune for, in and of undoubted richness. A drilt has now been run 78 consequence of the employment of inexperienced superin. feet upon this lode, and shipments of 20 per cent. cupper tendents ; consequently the company has not yet puid any are now being regularly forwarded to your city for transfer dividend. The mine has been worked entirely for lodes of East. The Company has a large quantity of 5 and 8 per concentrated ores, such as the Union mine produces. Such cent. ore on the surface, which will soon be concentrated. deposits are few and far between in this, as well as in most other mines the world over.

The expense of ruoning drifts and sinking shafts to find deposits of concentrated ores has kept this company back from ranking with first class copper mines. The company has recently, however, made arrangements with a practical copper miner to take charge of their mine and erect "Concentratiog Works." This party has had 30 years experience, as Superintendent of copper mines, and a concentrator of copper ore. We are quite confident that this mine, inside
of four months, will be shipping from 400 to 500 tons of 20 per cent. ore per month. The new Superintendent will send to the surface the entire bolk of the lode, as it runs, and select the No. 1. Numbers 2 and 3 will go to the concentrating works and subsequently be returned as No. 1 ore. Thus every particle of copper ore will be saved and prepared for the market. Such a method of working will soon make the Keystone equal to the Ophir, of Washoe, in its yield of wealth.
Parties are now in your city negociating for machinery, by which to concentrate ores and this Company will no doubt have in operation the first copper concentrating works on this coast. The mill will be in operation, probably, within four months.

## the calaveras company.

The mine of this Company-the 2nd western extension of the Union-bas not yet been opened to any great depth 'Hhis Company has done nost of its work upon the croppings of the lode ; they find a superior quality of mineral such as the black, gray and "horse flesh" ore-the latter a local term for the red oxide of copper. Thesie ores are chiefly found on the back of the lode, never in large quanti ties, and not often deep down. They are good indications in a mine. The Company is shipping some ore, but not enough as yet, to pay expenses; neither will they do so for some time to come, unless they change their present mode of working.

## the napoleon mine.

This mine has never been properly worked until quite recently. Until within a few weeks all the work has been done upon stringers"and feeders, the main lode not having been struck until since the present Superintendent has had charge of the mine. Since the change in its management, the working plan has been so modified as to make it essentially a new mine. The main shaft is now 140 feet deep. The main lode or rather its foot wall, was struck in this shaft by the former Superiutendent, but he was not aware of $1 t$, but passed on by it,timbering as he went down, and
comusenced work upon some feeders, which were lying undes the main lode. When the new Superintendent took strike the lode which his predecessor had neglected, and was rewarded by finding a well developed vein six feet thick, and of undoubted richness. A drift has now been run 78 The Superintendent of this mine, who also has charge of the. Kevstone, informed me that he should be able to ship from 100 to 150 tons of ore per month, as soon as he had his drifts properly opened and in good order for working; which would be in a few months.

## conclusion.

From the above notes, which have been hastily thrown together, your readers may be able to form a pretty correct judgment of the value of our copper mines in this section. Persons interested, and especially those working and superintending copper mines should bear in mind that it is not necessary that theyshould have lodes of concentrated, 20 per cent. ore, to make their mines pay. Give me a lode four feet thick, with the mass of vein stone averaging 6 per cent. of copper-I care not how much scattered it is thro' that mass-and I will gaarantee to you dividends equal to the best paying silver mines in Washoe.

Copper Miner.
Laborers Wanted.-From every part of the mining regions we hear complaints with regard to the lack of laboring hands. The unusual exodus of miners over the mountains, and the increasing interest which is being taken in copper mining on this side, appears to have completely absorbed the surplus labor-or at least all that is skilled in underground work. Wages, we understand, have materially advanced in many places, and it is found necessary to offer additional inducements, to keep men at steady employment, in preference to joining in the general rush for "prospecting" on their own account. In Del Norte county, we understand some of the mines are at a stand still for the lack of hands to work them. There is great complaint also of the scarcity of laborers in the Copper Mines of Contra Costa couniy, while gentlemen recently from the central and lower portions of Nevada county inform us that mining employers there have been compelled to make material advances in the wages of their hands to keep them from joining in the general rush for "new diggings." We hear similar reports from other sections. The present promises to be one of the most successful mining seasons on record. Large shipments of copper ore will saon begin to arrive in this city, and we are greatly deceived in present indications if this new branch of business, depes not reach an important position in California industry, ere the present year is passed. There are huadreds of idle men about this city complaining that they have nothing to do, who might find good employment, at this time, in the mountains, and be of service both to themselves and the State in opening up the new arenues of wealth the existence of which their

OUR MECHANICAL INDUSTRY.
MIners' Foundry and Machine Works
We visiled this establishment a few days since and took a hasty survey of the premises. The increasing importance of the mechanical interests of this city may be very correctly estimated by the extensions of the working area of our various foundries and machine shops, wnd the evidences of this kind which we met at the Miners' Foundry, testify that this establishmeut is enjoying its full share of this increase. Large additions have been made to every portion of their working room and eveything about the establishment has the appearance of order, convenience and thrift,

In addition to the usual mechanical appliances this foundry has been converted into a perfect Miners' Museum. Here may be seen almost every description of machinery employed for mining purposes not only in the various stages of manufacture and in completeness, but also in actual practical operation. We saw at work Wheeler's Amalgamator and Separator, Howland's New Freyberg Process (anew and valuable invention which we shall notice more fully next week.) West's Amalgamating Pan, Celeman's Pan, and four or five different Crushing and Grinding Machines, for working quartz, Mineral Paints, etc.
Fully alive to the great importance of the Mining interest the Proprietors of this Foundry have set apart commodious rooms for the especial use, and provided ample notive power for the working of their machinery, both to eaable the inventors to exhibit practical tests of their several inventions and improvements, and also to afford miners and mine investors every convenience for testing their ores upon a practical scale here in the city.

Upward of 100 hands are employed in this Establishment. It has two furnaces capable of melting seven and a half tuns of iron each. Single castings bave been turned out at this Foundry, weiging six and a half tuns. They are now constracting for the Real del Monte Company, at Aurora, a beam Engine of 100 horse-power. This Foundry also has the contract for the entire construction of the Mill for this Company. We examined the plan and drawings of the same which is to cost about $\$ 100,000$, and which will be one of the finest works of the kind on the Pacific Coast. The Mill will be 160 feet long by 60 wide, with a brick smoke stack 70 feet high.

This Foundry has also recently constructed and put in operation the Wide West Co's new Mill. They have also lately shipped the machinery for S. C. Fogus \& Co's Mill, which is now in progress of construction, as a custom mill at Aurora. This is a 12 -stamp steam mill, and will use 8 Wheeler Pans and 3 Separators.

They are also at work upon a mammoth amalgamating pan of West's Patent, which is 24 feet in diameter.
We bave received a copy of the annual circular of this firm, containing their advertisement, illustrations of various machinery manufactured at their establishment, and a large number of valuable mechanical tables, rules for mensuration, etc.

We shall endeavor to look in upon some other establishments and take a few notes in scason for our next ssue.

## Copper Ore-The California, Smelting Works.

The Secretary of the California Smelting Works, gives the following schedule of prices which the Company will pay for copper ores delivered at their wharf at Antioch :-
$71 / 2$ to 8 per cent...

9 per cent..
10 per cent.
112 per cent.
and in the same ratio for ores of higher assay. The ore is estimated by the usual smelting tun of $2,3761 / 2 \mathrm{lbs}$. dry weight

When desired the Compary will advance all expenses of freight and transportation from the Mine to the Works. The ore may be sentin bult or in bags, which will be returned. Payment will be made in gold as soon as the value of the ores is ascertained by the assay of the Metallurgical Chemist of the Company.

As architect proposes to build a Bachelors' Hall, which will differ from most houses, in having no eaves.

Notes of a Trip to Slate Range via, Los Angeles, Telacapa and El Paso.
[We give below the first of a series of letters which will be furs shed by an intelligent correspondent, who left this city some two months since, for an exploring expedition through, the Slate Range Miniug District. The notes of travel, given in the present letter, will be interestiag to parties who may think of visiting that region, and the subsequent letters, descriptive of the mines, etc., will, no doubt, be found truthful and vuluable.]

## the departure.

Saturday, March 28, 1863. Having bid farewell to our wives, children, sweelhearts, and friends in Alameda and Oakland, our party, consisting o. two strong limbed and strong hearted young men and myself, crossed over to the city, made up our final purchases of such articles as we supposed the trip required, limited to some extent by the scarcity of coin, sent them on board the steamer, spent the evening with some friends, took our last sleep in San Francisco, for one or two years to come, perhaps, and on Sunday murning at 9 o'clock stepped on board the fine steamer Pacific which took the place of the disabled Senator, and in fifteen minutes her loud mouthed bull dog belched forth his parting compliments to the just awakened denizens of the Golden City, and we were fuirly started on our long journey to the far distant silver mountains of San Bernardino county.

## the thip down the coast.

But few incidents occurred upon our trip down the coast. The weather was very fine, but after passing the Gave the steady regular swell of old Ocean's bosom, caused a curious seusation about the gastric region, which prevented us from appropriating our rations for the balance of the day and even made a demand apon us for our breakfast. Determined to become acquainted with coarse fare and limited accommodations as soon as convenient, at night we took our blankets and made our way to the sleeping apartments devoted to the forward passengers. These we found commodious, each with a good clean matrass, and the only drawback was the fixidness of the ball eyes which should have afforded us some ventilation. On appealing to the steward, he informed us that the orders were peremtory in regard to that matter, and 1 suspect they were given while the steamer was engaged in a higher lattitude and had not been revoled.
On the following morning, our appetite having returned, we obeyed the call to breakfast, but were somewhat checked on fiading the table nearly surroundel with Chinamen, outnumbering the white folks considerably. Some of our party gave unmistakable evidence of their diggust at this arrangement, in plain English, but the writer said nothing, as the Johns were as cleanly in their dress and manners as any at the table, and determined to put up with anything within human enduranee, rather than find fault. But the fare was really execrable and by those present who had traveled on the senator, was said to be very far inferior to hers. We made out to reduce a little of the very tough fried beef, hard bread and molasses, and sweetened colfee, and then resorted to our own grub box for a nice soda biscuit and a ginger suap to finish our meal, with a cup of good water of which there was plenty on board.
Late in the evening of the second day out, as we were promenading the upper deck, a young man approached us with a book in his hand, accompanied by another holding a lanteru, and asked for our fare ( $\$ 15$ ) which we paid; but somo poor fellows who were duzing in some of the obscure corners of the vessel, missed, I am quite positive, the kind attentions of these gentlemsn. Good enough for them. They should be around on such an important occasion. Oue of our passengers who had been in Uncle Sam's employment as a teamster, was there, on his way to join a portion of the Army on Owens' River, if I remember rightly, had only green backs on hand. He offered three fives for his fare, but they would not take less than four. He refused to give more than three, and was told they must take his sack of clothing, "All right," said he, "and perhaps you had better take my blankets also." "Yes, we will." Said he, "I can get them again when we arrive at San Pedro." Poor fellow I He did not succeed ; but waited till the steamer returned from San Diago, then went on board, paid his full fair in coin and took his baggage. He found it too
big a jub to resort to law, against the Company, though he nijght eveutually succeed, perhaps.
'I'vesday, 3lst. Arrived at anchorage in the Bay of San Pedro, at 4 A. m., at a little outside Deadman's Island, and soon found ourselves surrounded with yawls and barges to convey passengers and freight to 'Tomlinson's Lavding, ()ld 'lown, and a pretty little steamer belonging to Col. Bauning to take those who preferred to New San Pedro.

## on shore-old and new san fedro.

We being acquainted with Mr. Tomlinson's reputation for urbanity and kinduess to strangers, took passage in his boat and found all we had heard verified. We stayed with him till next morning, enjoying the leisure hours in helping him and his men to uncad and stow away freight, and between the trips he would recount some of his adventures with Indians and bears while teaming in different parts of this State, Oregon and Mexico. He, I think, is the bell teamster of California, having for many years, the greatest a mount of stock on the road His horses and mules are continually running on the roads with freight from his ware houses in Old Town and Los Angeles to the Colorado, Slate Range, El Paso, Owen's River, Coso, Anrora and eva erywhere else, with machinery and the necessaries of life for those who toil among the unlimited mining districts of our State and Nevada.
Old Sau Pedro is a small village consisting of Mr. 'Y's warehouse, his boarding-house and a grocery kept by a Gesman, close by.
New San Pedro appears to be a very pretty village, pleasantly situated at the head of the Bay, about $21 / 2$ miles from Old 'Town ; approachable with boats only at certain stagea of the tide. The indomitable energy of Col. Banniug and his associates will no doubt continue to make it the town on the Bay.
Camp Deuver is located there which adds much to the life of the place.

Whdnesday Morning, April 1st. Packed our freight on mule teams and at 10 A . m. started on foot for Pueblo do Los Angeles (the city of the angels.) On leaving the beach we ascended a high, sharp bluff and at once the eye took in the whule vast plain to the mountains about tweaty-five miles distant, with the city at the base and which would be visible from a slight elevation. This plain at this time pren sents the appearance of a great desert, not a tree or shrub, but occasional patches of a weed which in our younger days we called cheese plant, and which stock do not seem to relish, even when their supply of grass and clover is exhausted thus early in the season. Stock of all kinds is now beiag driven back to the valleys and gulches in the mountains to avoid starvation. It is expected that the losses will be very great, on account of the suall supply of water which fell last winter.
On this dreary walk we came upon a Rodeo in full operation and had a good opportunity for the first time to witness the manipulation of the hombres, on this annual ociar sion, in lassooing, throwing, branding the yoang stock and hunting off each man's animals by themselves so that he may; take an account of stock, make out his invoice and take his phace in the property scale to which he is entitled.

By actual observation we became convinced of the oft repeated assertion that ground squirrels, owles, and snakes live together in harmony. Large squirrels were moving ahead of us in all directions, about twenty yards distant and sometimes 100 would be coynted in sight. We saw the owls sit. ting by the squirrels holes and disappear as we appronched and suakes would occasionally follow them and lizzards anc horned toads (of which we saw some beautiful specimens, all seemed to have their homes with the snakes.

Arrived in Los Angeles in the evening and camped in the spacious storage yards of Tomlinson \& Co., oceupying, 1 fifty vara lot enclosed with an adobe wall seven feet high the front filled with adobe honses and offices, one side al ranged with stalls for horses and males, the other piled wit lumber kept for sale, and the centre filled with their gres wagons and stages.
We here enjoyed our first experience in sleeping in th open air, and it was not a pleasant sensation, but we soo became accustomed to it as the novelty wore off.
Finding no teams loading lor Slate Range: we amuse ourselves in looking about town and wandering into it

## MINING AND SCIENTIFIC PRESS.

country among the rincegardo for which this phace is justly famosas. Ilenty of urange cichards were tu le seall hat nu fruit. The sincyards presented as very trad afperathice, the stent though from ten tu twenty gears ohd being only about three feet high, consisting of two or three branches and euch braneh having only one spur or bud upon it. 'the leaves were starting out on sume of them, but the grass and weeds between the rows had not yet been distubed and torether with the acraggy stumps presented a desulate appearance. The arrangemente for irrigation about the city ure very fone, the I os Angeles River being conducted in small chanonels, so that all can have the use of it by turns, twice during the season I believe being the general rule. The streets of las Angeles gonorally present a someweat lively aspect, particularly aroum the pri cipul hotal, Belle Union and where the heaviest dealers in merchandive are locat d. A few fine brick blucks are up and well filled in with goods, and the market house with its fine turret elock and the court house, tend to give it an American appearance; but the many luw adobe dwellings, with their henvy walls and no winduws or an occasional upening eheckered with iron bars, tells plain'y that the old sjuabish ingredient still occupies a prominentoplace in socicty.
I remained in Los Angeles orer a week and such a dull Freek never fell to my lot before. Once the mail arrived from Nan F'rancisco and that was a great relief, though it required only a few minutes to appropriate all the Daily Alta servel up-which was the ouly paper I saw. On all occasions in Los Angeles when we replied to the question "What mines are you bound for?" "Slate Range," the enquirer would open his eyes with wonder and exclain, "I thought Slato Range was 'played out'! Why dou't you go to Soledad, Colorado, or El Parso ?" But Slate Rauge was our goal and there we would go.

On Tuesday, 7th, we found an ox team would start for Slate Range the next day, under the charge of McGuffs, and loaded with corn, lumber tools and supplies for the Fernando Mill Company. So we offered our services to Mr. Meguffy, as ox-drivers, or bull punchers, as they usually call themselves. He accepted one at low wages and would take our freight at 8 cents a pound, making no charge for personal baggage and blankets, and we could ride when we chose, on easy grade. So we closed and started out Wednesday morning, April 8th, at 10 o'clock, and walked 6 miles to Mr. Mayhew's ranch where the cattle were to remain over night to fill themselves before commencing the journey over the dreary deserts and mountains before them.

Mr. Mayhew invited us in, and we passed a pleasant hour with him. He is a candid Alabama Southern sympathiser and feels somewhat annoyed at the prospect of being drafted to fight in the northern ranks. Thinks that a regiment such as he would make poor defenders of the North. I agree with him fully. Yours \&c.
U. W. G.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable mineral deposits, other than gold, in almost every section of the State, which have of late been made, it is but reasonable to suppose that prospecting even in California, has but just commenced. The simplest and most universal of all metaliferous deposits is gold. It rarely occurs in any other form than that of "free gold" which is readily discernable to the naked eye. An examination of any rock or earth for gold is an extremely simple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a pan is an invariable test. If in rock of any description; thal rock pounded fine in a mortar and washed, in the same manner as alluvium, will usually expose its gold to the naked eye, if there $1 s$ any there in paying quantity. The only exceptions, are where the gold is contained in iron pyrites, or copper pyrites containing also iron. In either of the two latter cases the presence of gold may be readily ascertained by placing the pyrites in any suitable vessel and keeping the contents at a moderate heat for from four to six hours, with frequent stirrings, by which means the sulphur will be evaporated, and the copper, if any is present, changed to a dull red color, and the gold retaining its natural appearance, on subjecting the whole to the usual panning process, may be readily seen hy the naked eye.

Nol so with othermetals. Silver, copper, zinc, niekel,
and many others appear in such a great variety of metullifrouls iurms as frenerally to defy all but the most practical and seientific cye. No description of these ores can bo written which will alford any very impurtant aid to the inexperienced in making explorations. A!ter reading descriptions, howover, and carefully extumining the specimens described, the explorer may go out and search with some degree of coufidence and intelligence. A study of the characteristics of the sulphuret ores alone, would lead an explorer to pass over, ontirely unuoticed, the nchest varieties of the ores known as Chlurides or Horn Silver, which, from the facility with which they may be worked, and their usual richness, are generully considered the most valuablo of silver ores. There is much reason to believe that this variety of silver ore will be extensively found in all the volcanic reriuns of this State. So with many other ores.
Considering the great difficulty, in the present lack of cabinet collectio's, and other means of instruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resources, we bereby make the offer to m:ners, prospectors and all others, who in their travels or explorations miy come acruss specimens having the appearance of rarity or value, to carefully examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whevever any such specimens are brought or sent to this office free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be presented to us.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new miveral. The ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance io conformation, color or other characteristic, attention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or npar a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notic of the California prospector. These articles will be published under the head of "The Miner's Laboratory," and will be found of great value to the mining public. [Mining and Scientific Press, April 20.

Subscribe.-Are you a miner and not a subscriber to the Minting and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, partieularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contaiued in a volume of the Press, cannot be bought from the shelves of any bookstore in the conntry for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable readiug matter, jou can find no paper that will be read with so much eagerness by them, or one that will convey to them so full an acgount of the real industry of the country as the Mining and Scientritic Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the onfy mining paper printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months; but inasmuch as we are anxious to introduce the paper where it is not now known, we rill, for the present, send the Press for three months even, on the recelpt of one dellar, in coin or stamps. It is our belief that no one will wish to discontne the paper after being a constant readar of it for even that short perioo.
ithining and §cientific qlerss.
 C. W. M. SMITE and W. B. EWER, ; .... Proprietors

Sngravings, Electrotypes, etc.
Wr execute at his onthey Engravings and Hhustrations on wond, atone,
 ariptoll-Bthaingr, sketeles of Tuwne, Machinery, Stanyl ifes, Neala for I'artose will remember that whell we exechte engraving's the will insert
 verlasing Mellium to be found antho country.

## To Printers.

As Intarest in one of the most Honsishoug and best paying Newspa per offees in tho mountains is offered for sale on easy torms. A rare op portubity is horoby prezented toany printer desirous of etinblisbing him self ia a gnod business in ono of for finer fuformation enguire at this ful mou
oflice.
mining and scientific press.
THE ONLT MINING, MECHANICL AND SCIENTIFIC PAPER ON THIS CONTINENT.
THIRD YEAR: VOLUME YI-NEW SERIES:
A uew volume of this extonsively circulated papor commoncen Sept. 11,
862. It is intended that every number shall be 1862. It is intended that every number shall bo replete with infurmation concorning Mining, Scientific, Mechanical and mdustrial pursuits, together
will several original engravings, of new inventions, etc., prepared expressly for its columns.
This paper is devoted to the above purposen, together with the interesta Sfience, Arts, Agriculture and Commerce, and any general information that may be of interest to the reader : aud it is the jutention of the proprio tor to spinc no pains or expense in making it equal in interest and valuable

The Mining Interest !
Will find it of grat value, as it will contain all the news appertaining to Nining, the prices and sales of Sining Stocks, new inventions of Machinery duaped to tiat purpose, and of everything generally that may be of service to the Miner.

## The Inventor I

Win find it an excellent medrum for the purpose of bringing his invention into notice, of ascertaining the progress of invention in this and other countries, and also of rcceiving any information that may be necesary in obtaining his patent, the propies at Washingtom that exable bim to ob ain Patents witli dispatch.

## The Mechanic and Manufacturer!

Will be greatly benefitted hy its prrusal, as each number will contan sera eral original engravings of new machines and inventions, together widy $y$ large araount of reading matter eppertaining thereto. We are conslantle shall continue to extract whatever may be of benefit or interest to oureaders.
To Chemists, Arohitects, Millwrights and Farmers ! Tfis journal will be invaluable. All new discoveries in Chemisiry will he given, and a large amount of information of great service to Archnects and
Sillw wights will bo found in our columus. The Farmers and Plantens will mot be neglectel, engravings will be giren of agrieultural inplements, and the farming interest generally will beamply discussed.

## Terms. <br> To mall subscribers:-Four Dollars per annum <br> Club Fates <br> Five Copios for Six Monthe, 88, Ten Copies for Six Months, i6. <br> Ten Copies for Six Months, $\$ 16$. Ten Copies for Twelve Moutls, $\$ 30$. Fifteen Copies fre Twelve Montlos, $\$ 4$ <br> 

For all clubs of Twenty and over, the yearly subscrintion is only $\$ 280$ For all clubs of wenty and over, the yearly subscrintion is only $\$ 2$ so
Names cau liferent times and from different Post-ofices
Specimen copies will be sent gratis to any part of the country.

## EWER \& SMITH, Publishers,

Room 27, (formerly) U. S. Court Building, Corner of Washing ten and Ba Our Mint, its Rules, Charges and Operations.
For parting silver from gold when gold

## is below $300-10001$ hs. fine

from $30-100$ ths to $750-1000$ ths fine 7 ets per oz 6 $750-1000$ ths to $950-100$ ths " 14 cts
Defostrs Stluer Bulhion-Purciases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contrined for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 3cts. per oz. gross weibht

$$
\begin{aligned}
301 " 500,7 c t s, " " ~ " ~ & \text { Deposits for Fine Bars }
\end{aligned}
$$

\$1 16-4-11ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained 1/2 per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Deposited for Dollats.
\$1 16-4-11ths. per standard oz. $1 / 2$ per ct. gross value for coining, when gold is contained, refiniug charge the same as in purchases.

Deposited for Imported Bars.
$\$ 116-4-11$ ths. cents per standard oz. $1 / 2$ per et. gross value of deposit for making bars.

THE MINERS' T.ABORATORY,-NO. IV.

## TEE GEOLOGY OF COPPER.

Frange affords but one workable mine of Copper. Numerons mines have been wrought at various periods in the past, but, we believe, with the above exception, they have all been abandoned. The copper veins of this country are everywhere found associated with aluminous slates, more or less metamorphic, and among which, at frequent iutervals porphyritic rocks have been protruded. The mines at Chessy are directly at the line of junction of the granite and lias, (the latter a species of limestone.)

Germany.-The Copper Mines of the Hartz mountains occur in grauwacke slate into which numerous belts of trappcan rocks have been obtruded. The mines of Rheinbreiteubach are in the same character of formation, and are productive in pyritous and variegated copper.

Spain.-The general character of the deposity of this metal in Spain, is similar to those of the Hartz mountains.
In the Province of Hueloa is a district of much mineral wealth, the fermation of which is clay-slate, traversed by numerous porphyritic eruptions, and it is near the line of contact of the slates and porphyry that nearly all the metaliferous veins occur-the most valuable being directly between the two formations, having a wall of schistose slate on one side and porphyritic granite on the other ; the former usually composing the south wall and the latter the north wall of the veins. The veins are often found with both walls of porphyry, and sometimes, though unfrequently, with both of slate.

Prussia.-In the vicintty of Mansfield, in Prussia, an interesting deposit occurs, known as the "Keepferscheifer," or copper slate-a thin layer of which occurs in magnesian lime stone. Throughout the entire body of this "copper slate" is disseminated gray argentiferous copper ore.

Near Schemnitz, in Hur gary, is an interesting metalliferous region, which produces about 5,000 tuns of copper annually. The veins of this district are found altogether in porphyritic rocks, connected with sienites and passing into granites. The predomina ing vein rock is quartz and sulphate of barryta. The ores are pyritous and gray copper.
Norfay and Jiweeden.--The veids of these countries are almost exclusively confined to the gneiss and mica slate, more or less metamorphic from subterranean heat. The cupper from this region is highly esteemed in consequence of its purity and freedom from arsenic and other metals.
Russia. - The copper deposits of Russia, in the Ural Mountains, are also remarkable for the purity and richness of their ores. The copper ores of this region are found chiefly in thin veins and nests of malachite, which lies in a broken, unconsolidated mass of detritus, overlying the surface of the uptarned edyes of lime-stone strata, intermixed or rather intercallated with ridges or ledges of trappean rocks. This malachite, though not in immediate contact with trappean rocks doubtless owes its origin, indirectly to igneous action, being probably a secondary product resulting from copriferous sublimation, accompanied by stalag mite deposition.

Cuba.-The copper deposits of Caba, like those in the Ural Mountain region, are not in regular veins, but in beds and masses, in immediate conbection with igneous rocks, such as greenstone and serpentine. The gangue of these deposits is composed of quartz, and common white marble The ore consists chiefly of yellow sulphurets, although blue carbonate of copper is not uncommon.
Chur.- The copper mines of this country are very numerous and of great value. They exist chiefly in metamorphic granite, with veinstone of quartz aud jasper.

In Australia the mines of copper are situated in an association of rocks quite similar to those formed in the Cornwall copper districts. The Barrossa district is in mica slate, similar to the killas (slates) of Cornwall. Through these slates, as in those of Coruwall, gravites and sienites have been protruded, at frequent intervals. On the Copper Mine River, the enclosing rock consists of trap and stode, with occasional layers of limestone.
In Lower Caltfornia and Carmen Islands, we learn from verbal communication that the enclosing conntry of the copper veins coosists almost altogether of igneous rocks.
From the above data it will be seen that copper ores are
found in almost all positions, fron the most recent clay slates and detritus to granites, but invariably either in actual contact with or in the immediate vfcinity of igneous or metanmorphic rocks. Perhaps no metal presents more nififor evidence of an origin derived from an igneous agency than copper in its various ores. Of its origia we shall speak at-a future time.
With the exception of iron no metal, used extensively in the arts, is more generally distributed than copper. There is scarcely a known country on the globe where it has not been found in workable quantities.
It is hardly necessary that we should occupy space in a journal for California readers, to direct them how to find or trace a mineral vein; yet a few brief hints to aid the prospector in determining when he has found a copper vein may not be out of place.

## TO TEST COPPER ORES.

Perhaps there is no characteristic of copper veins so general as their color. Whenever amineral of a green or blue color is met with the presence of copper may be reasonably suspected.
A very simple and ready method to test the presence of copper in any ore is to drop a little nitric acid upon it, and after a short time dip a feather into the acid, and wipe it over the blade of a knife. If there be the least quantity of copper in it, the same will be precipitated on the knife. Perhaps a simplir mode than this cannot be named.
A blow-pipe test may readily be made as follows:-Place a small piece of copper ore, with a little borax on a piece of charcoal, and apply the flame of a blow-pipe, when if any copper is present it will soon show itself in a small globule. Again take a small quantity of the ore and pulverise it ; place the powder in a small vial, add three or four times its bulk of nitric acid, which will soon dissolve the powder; then add a little water, and dip the point of a knife, or any piece of bright iron into the liquid. If copper is present the iron will be found coated with it.

## CHARACTERISTICS OF COPPER ORES.

The ores of copper are quite numerous and present a great diversity of uppearance, yet they are all very readily distinguished, each from the other, by certain unmistakable characteristics, which are rendered familiar by a very little attention. The presence of copper in any ore having been det ermined by the "tests" above given the character of the ore can, in most instances, be determiued by the following description:-

The ores of copper are divided, by metallurgists, into 13 different classes, and each class is subdivided into many varieties. The richest of the ordinary ores appear under two general aspects: the first having a metalic listre of copper red, brass yellow, iron or blackish gray, at times iuclined to blue; the second is without metailic appearance, of a reddish color, verging upon purple, blue or green, the last being the most usual tint. The classes of ore most frequently occurring are Native Copper, Sulphuret of Copper, Copper Pyrites, Gray Copper, Sulphate of Copper, Carbonate of Copper and Arseniate of Copper. The most common are sulphurets and oxides, the former being the most abundant. Sulphuret of Copper occurs in all considerable copper districts, and is very abundant in California. 'The color of this ore is a blackish lead gray, approaching, at times to tarnished blue or green. It is considered one of the richest ores, and generally occurs in very heavy veins.
Copper Pyrites greatly resembles, in appearance, sulphuret, of iron, common in the gold bearing quartz of this State. The color of the Pyrites is brass yellow, sulbject to tarnish, with greenish black streak and uneven fracture.
Copper Pyrites are readily distipguished from iron pyrites, which they greatly resemble, by their inferior hardness; they may be cut with a knife. while iron pyrites will strike fire with steel. A marked dffierence may. bo also be noticed in the effects of nitric acid upon the two substances, They do not form so rich an ore as sulphurets. The richness of the pyrites may generally be judged by their color. If they present a fine yellow hue, and readily yield to the hammer, they may be considered a good ore; but if they are hard and of a pale yellow color, they are mixed with iron pyrites zand consequently comparatively barren of copper and constitute a poor quality of ore.

Carbonate of Copper is of a blue or light green color, with
pale green streak. It often occurs in beautiful green crysta 1 s It is also known as Malachite. Green Malachite or Green Carbonate of Copper admits of a high polish, like marble,and When obtained in large slabs, is often formed into tables, manIle peices, etc.
Arseniale of copper is of various shades of olive Green, and sometimes occurs in beaatiful blue erystals. It readily melts before the blow-pipe, throwing off fumes of garlic odor. I'his ore is but little worked.
Gray Copper ore is of steel gray color,more or less deep, either bright or dull. The value of this ore is often very materially increased by reason of the silver which it coutains.
It is generully acconpanied, to a greater or less extent with copper pyrites.
Sulphate of Copper (Blue Vitriol,) is similarto the artificial ealt of the labratory. The water flowing from mines of this of ore is of a blue tint, caused by the solution of this salt.
Copper is easily obtained from this water, in a metalic state by depositing peices of scrap iron in it.
The ores above named are about all the oxes of copper which are worked to any extent.
The copper of Lake Superior contains about 3-1 gths of one per cent of silver. The copper of this State, mostly if not all, doubtless contains au appreciable quantity of both gold and silver. Of this we shall probably receive more deffinita knowledge when full returns are received from ores which have been sent East for reduction. A little metallurgical knowledge will be found of vast importance to the miner everywhere, and especilly in California, where the mineral deposits assume such unprecedented profusion. Our miners according to present indications, will soon become as familliar with copper ores, as they have, for the last ten years, been with gold.

Copper Mining.-We would eall the especial attention of those of our readers, who are interested in copper mining, to the letter of our Calaveras County correspondent, who writes over the signature of "Copper Miner." He is a gentleman of much practical experience in working and concentrating copper ores, having been thoroughly schooled, in that business, both in Cornwall and in the Lake Superior copper region. He has taken the liberty to criticise pretty freely upon some of the past working in the mines whick he has visited. Of course he is risponsible for what he says, and even if he rany err in judgment, in some cases, no evil need to come of it. A fair open criticism and deareription of our mines and mining operations is what we want. It is the only way to obtain practical information, such as will lead to progress and success in mining enterprise. We want information with regard to processes and modes of working, both in the mill and mine. We are promised other letters from our Calaveras correspondent. We trust and be lieve they will be read with interest and profit. If any parties should think they have been unjus ly criticised or spoken of, our columns are open to reply. Discussion is pretty sure to elicit truth and that's what we want. We shall give some valuable and practical information with regard to the mode and proces es for concentrating copper ores, as soon as we can secure the necessary data, which will be within two or three weeks.

Specimensfrom Humboldt. - We have examined some specimens, handed in by Mr. Trotier from Union City, from the Cassins Company, Bratus Ledge, which was mentioned by our Humboldt correspondent of last week. The specimens before us were received a few days since and look well for both gold and silver. Assays from this Company's ore range from $\$ 171$ to $\$ 1000$; taking the lowest and the highest figures, a small percentage of which is gold. The Cassius is an incorporated Company. F. R. Jenkins is Sec. and M. D. Howell, Prest.; Office W. B. Cook \& Co's Stationery store Montgoniery Street. The Company are now mak ing arrangements for properly opening the ledge, with a view to the commencement of active operations.

More Dividend-paying Companies.-The Daney Gold ailver Mining Co., Devi'ls Ga'e Distriet, N. To, pay a dividend of $\$ 14$ a foot to day. The Uniou Gold Mining Company) Howland Flat, Sierra county, Cal.) announce a dividend of 3 per cent. on their capital stock.

We notice the removal of our friend A.J. Moulder, Esq., Stock Broker, to a Epracions Office. No. 605 Montgomery St. Which place
R. C. Page. \& Co.

## GENERAL MLNING STOCK REPORT.

REPORT UF BIDS
At tho gen Franclice Mining stook Hoand, For tho week radiug May 23, 1863.


Inrge number of mines throughout the ettire copper bel $t$.

 We may look for the suceess with certionty, and calculate lin men rely uis tho iucrearlug inpetus which the intrmbuctuan of such machbuery will give to than growing fuiluntry. Thin tirat Cunceuteatiag 3 dill will bo in operation faee awabting fis completors.
 molite, while holders it several are refusing to patat with thole stures at any pricu gut named.
pound ou our first jage.

## HUMBOLDT AND REESE RIVER,

Tho transaotions in the city in ILumbolit aud Reose Revor sharen a ro as yet quite light and inostly ht nosuiual and privato ratos. Buyers are hold off for more definite results.

TRANSACTIONS IN SHARES, FOR THE WEKK.

## NEVADA STOCKS

Ophir-2 at \$2,550; 1 at 2,550.
Daney-20 at 340; 48 at $325 ; 40$ at 370 b 30; 20 at 360 b $30 ; 8$ at $360 ; 8$ at $3621 / 2 ; 20$ at 380 b $30 ; 12$ at $360 ; 8$ at $3621 / 2 ; 72$ at $355 ; 24$ at $350 ; 40$ at $345 ; 20$ at 340 .

Chas. Capey -1 at $90 ; 10$ at 95 \& 30 .
Burnside-25 at $281 / 2 ; 10$ at $25 \mathrm{~s} \mathrm{30;} \mathrm{55} \mathrm{at} \mathrm{26;} 100$ at 24 s 30; 25 at $24 \mathrm{~s} \mathrm{30;} 50$ at $271 / 2$ s $30 ; 5$ ut 271 ; 43 at $271 / 2$ s
$30 ; 10$ at $2316 ; 52$ at $24 ; 100$ at $243 / 4 ; 100$ at $22830 ; 35$ at $30 ; 10$ at $231 ; 52$ at $24 ; 100$ at $243 / 4 ; 100$ at $22 \mathrm{~s} \mathrm{30;} \mathrm{35} \mathrm{at}$
$24 ; 10$ at 241,10 at 231 b; 17 at $24 \% ; 10$ at $27 \mathrm{~b} 30 ; 15$ at $241 ; 20$ at $30 \mathrm{~s} 30 ; 25$ at $33 ; 10$ at $24 ; 22$ at $35 ; 3$ at $34 ; 91 / 2$ t $32 ; 12$ at $32 ; 45$ at $44 ; 27$ at $341 / 2 ; 100$ at 40, b 60 d .
Burning Moscow- 10 at $130 ; 15$ at 130 s $30 ; 40$ at 160 b $20 ; 10$ at 150 s $20 ; 10$ at $150 ; 40$ at 140 b $30 ; 49$ at $130 ; 10$
at 150 b $20 ; 10$ at $130 ; 20$ at 120 b $30 ; 30$ at $100 ; 22$ at $122 \frac{1}{2}$ at 150 b $20 ; 10$ at 130 ;
20 at $105 ; 60$ at $1021 / 2$.

Yellow Jacket-8 at 700. \{ Hale \& Norcross-8 at 925
Iowa- 10 at 150 b $30 ; 10$ at 145 b 30 .
Chollar-20 at $875 ; 72$ at $475 ; 40$ at $475 ; 40$ at 480 .
Lady Bryan-25 at 71/4; 10at 7 .
Badjazette-40 at 40; 10 at $38 ; 10$ at $39 ; 10$ at 50 .
Norton- 25 at $22 ; 10$ at $201 / 2 ; 10$ at $151 / 2 ; 10$ at $16 ; 10$.
at $17 ; 25$ at $15 ; 10$ at $21 ; 40$ at $15 ; 30$ at $18 ;$ I0 at 20 b 30 ;
10 at $17 ; 30$ at $19 \mathrm{~b} 30 ; 20$ at $18 ; 10$ at $161 / 2$.
Cedar Hill Tunnel-40 at 5; 50 at $41 / 2$.
Milton -10 at 70. \{De Soto-5 at 106; 4 at 105
Madison-5 at 16; 5 at $25 ; 10$ at 18 ,
Adriatic-30 at 7; 30 at $73 / 4 \mathrm{~b} 30 ; 60$ at 7
Sierra Nevada- 41 at $601 / 2 \mathrm{~b} 30 ; 10$ at 60 b 30 ; 30 at 50 ;
San Franciseo-5 at 80 b 30 ; 10 at 50.
Gov. Nye -30 at 9. \{Stephenson Kehoe-50 at 20.
Mt. Hope- 10 at $32 \frac{1}{2} ; 100$ at 30 .
Proridence-20 al 25. ${ }^{2}$ Union-12 at 40.
Hazel Green- 30 at $41 / 2 ; 30$ at $41 /$
Red, White and Blue- 100 at $151 / 2 ; 100$ at 1.7 b 30 .
Pride of the West-5 at 155 b 30 .
Imperiaj-1 at 425 . $\{$ El Dorado- 5 at 90 b 60 .

## ENMERALDA STOCRS.

Wide West-10 at $\$ 350 ; 5$ at $\$ 375$ buyer 30 days; 5 at $\$ 360$ buyer 30 days; 2 at $\$ 3121 / \frac{1}{2} ; 2$ at $315 ; 10$ at 320 .
Esmeralda-10 at37. \{Fals of Clyde-10 at 12.
Josephine- 20 at $20 ; 80$ at $20 ; 10$ at $19 ; 10$ at $20 \frac{1}{2}$ b 30
30 at 18; 35 at 19 b $30 ; 10$ at 20 b $30 ; 5$ at 20 b 30 .
Silver Hill-10 at 52; 5 at 53; 5 at 52.
Ant lope-2 at 300; 10 at 315 b 30 .
Utah-20 at $9 t 1 / 2$ b $30 ; 10$ at 05 b $30 ; 5$ at 95.
Pond-5 at 45; 5at 40; 5 at $371 / 2 ; 15$ at $341 / 2$
Golden Age-10 at 36 . $\{$ St. Louis- 20 ut $31 / 4$
Bamboo- 10 at 67 ; 10 at 56 b $30 ; 15$ at 60 b $30 ; 5$ at $60^{\circ}$
Sunbeam-40 at $5 ; 45$ at $\mathrm{G} ; 100$ at 7 .
Scotty, Colorado-5 at 25.
Bodie, (Silver Hill)-300 at 30.
$\{$ Mt. Pitt-20 at 6.
Tmpire-20 at $\$ 25$.

## coso stocks.

Melones- 5 at $\$ 13$
Melones
Rhodes Digitings -15
at
at $41 / 2$
b
30
hUMBOLDT AND REESE RIVER BTOOKS.

Reed- 50 at $\$ 5$.
Butte-1 at $\$ 35$. $\quad\{$ Fort Pitt-20 at $\$ 6$.

## COPPER stocks.

Napoleon-9 at $\$ 70 ; 5$ at $\$ 70$. \{ Monnouth-10 at $\$ 10$.

## VIRGINIA CITY STOCK LIST.

Corrected for the Mining and Scientisc Pruss, Thursday, Mny 21, I863. Virginia Mining District.
-

## $\geq$ <br> 2

 AltelnAlch
Altur





## REMARKS.

## Stocks which have been dull for the past cen days are beginning to show

 signs of returoling activity.The Bajazette has agitated the market conaiderablyipithin the past two weeks, haviog been operated upon jretty freely by both the bulls and bears. This company is in possession of a large andrich ledge, but serious doubts are eatertained by many whether it may not be ideutical with the Potorl, and ovontunlly clamed by them. Wequote it $a, \$ 3 b$ (a) $\$ 40$, an adyanee on last week. The Belvidere is active at $\$ 123$ (a) 45 ; sales of 60 or 70 feet were made on Tuesday last at theas ligures. We understand from private sources chat question of title to a portion of their ground, with the Chollar company has been cumpromised, on terms cousidered highly adrantageous to the Belvidere.
Cunsiderable activity has been observod in Union and Priucuss, of Gold Hill, both having materially advanced during the week. The mines of both these cumpanies are being rapidly devulopod, with taust flattoring

York has beon in considerable demand of late at umproved rates. Thia company adjoins the Mosieow on the corth, and it is said they have struok very good rock, 50 feet from the surfate
Buruside is becoming quiet again, the late advance not haviug been sus ained by the expected a volopments.
For geueralatute of pricas wo rafor to our Stock List.

## HSMELCALDA STUCK LIST.

[Corrected for the Mang and Scientilic $\mathrm{H}^{\prime}$ ebs, May 10, 1862.]
Failing to recelve our usual Esmeralda lotter we continue our last




LIST OF MINING COMFANIES HAVING OFFICES IN SAN FRANCISCO．

| Namo of Company．${ }^{\text {a }}$ | Loonllty of Sine N | Name of Scerelary． | Locality of onve．${ }_{\text {a }}^{\text {a }}$ | $\begin{array}{\|l\|l\|} \substack{p_{\text {valt }}} \\ \hline \text { rut } \end{array}$ |  |  | Name of Company | Loenlity of Jine | Nammo of Sereratary I | Tronality of omee |  | ， | cot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Sima |  |  |  |  |  |
| J． C frem hisox | Sod frat |  | （in |  |  |  |  |  |  |  |  |  |  |
| Cbdar ．．． | Semer |  | cose |  | $\pm$ |  |  | siat |  |  |  |  |  |
| SEYECA．．． | Eamerulat Mistre | ${ }_{\text {kill }}^{\text {Hibium }}$ | Sob |  | ， |  | ${ }_{\text {cher }}^{\text {Culs }}$ | vir | W． C ．Sieve |  |  |  |  |
| Lema |  |  |  |  |  |  |  | Ningiua pina |  | Parr |  |  |  |
|  | Yas Hero District |  | cois |  |  |  | Nuslowe |  | H． |  |  |  |  |
| Cinus | Rese isisticas | C． s ．Hegiex | 40 |  | $\substack { 100 \\ \begin{subarray}{c}{10{ 1 0 0 \\ \begin{subarray} { c } { 1 0 } } \end{subarray}$ |  |  |  |  |  | cosem |  |  |
|  | $\substack{\text { Mistric } \\ \text { bin } \\ \text { die }}$ | －Hegeing | Hese |  | ${ }^{600}$ |  | it． | ${ }_{\text {coio }}^{\text {co．}}$ |  | War | ${ }_{\substack{2}}^{20}$ |  |  |
| Binnas Pri Buraing | ata |  |  |  | ${ }^{100}$ |  |  |  |  | coly |  |  | \％ |
|  | ar |  |  |  |  | 1．050 | 为 |  | jon |  |  |  |  |
|  |  |  |  |  | coo | 1，560 |  |  |  |  |  |  |  |
|  | tito Rang |  |  | coicle | $\substack{\begin{subarray}{c}{150 \\ 150} }} \\{150} \end{subarray}$ |  | Fintion． |  | Bre | memtitimem BiL |  |  |  |
| CATARAUGU | ite Rean | H：Chm | mom | cole | ${ }_{\substack{150 \\ 150}}$ |  | and |  |  |  |  |  |  |
|  |  | vi mile |  | ${ }^{10}$ |  |  | Heredith io． 6 \＆ |  |  |  |  |  |  |
|  |  |  |  | coicle | couc | ， | yina |  |  |  |  |  |  |
|  |  | ${ }_{\text {cher }}^{\text {Gizarer }}$ | Here | ${ }^{4}$ |  |  | ，ymatis |  |  |  |  |  |  |
|  |  | H：Giner ．．．．．．．．．． |  | $\xrightarrow{\text { Susion }}$ | com |  | del |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stant | den |  |  |  | cos |  |  |  |  | m．${ }_{\text {i，}}$ |  |  |  |
| Stars． |  | ${ }_{\text {liam }}$ |  |  |  |  |  | Mrer |  |  |  |  |  |
|  |  |  |  |  |  |  | （ermmut | Nipmata nerrier | 5． H ．Binemer |  |  |  | \％ |
|  |  |  |  |  | 5is |  | and | Han bat ine | ， |  |  |  |  |
| Sirus frut，consolde tid |  |  |  |  |  | ${ }^{6,750}$ |  | yirpuatimi |  |  |  |  |  |
| come | der erily | citeo |  |  | coo | 1， |  | ， |  |  |  |  |  |
| Roumbe．．．．．．．．eiex | hoerery |  |  |  | 300 |  |  |  |  |  |  |  |  |
| ${ }_{\text {Bratin }}$ | Lower | sirrey | ${ }_{\text {cosem }}$ | 50 |  | 8,400 |  |  | Hectinit | min |  |  |  |
| cill | Vivinina |  | （tacten |  | com | 何， |  | ？ |  |  |  |  |  |
| ${ }^{\text {Notaron }}$ | Satemersict |  |  |  |  |  |  | atc Rame |  |  |  |  |  |
| Sam maxat |  | ，van brut．．．．． |  |  |  |  |  |  | Vr Hithars |  |  |  |  |
|  |  |  |  |  |  |  |  |  | M，Aluer－ | Hex |  |  |  |
| ${ }_{\text {R }}$ |  |  |  |  |  |  |  |  | Chum |  |  |  |  |
|  |  | F．E． | Sill |  |  |  |  |  |  | ${ }_{7}^{7 \times 8}$ |  |  |  |
|  |  | Somer | Hont |  | cois |  |  |  |  |  | ， |  |  |
|  |  | yol join | Clay |  | com |  | ，mine |  |  |  |  |  |  |
|  | ${ }_{\text {and }}^{\substack{\text { and } \\ \text { dist } \\ \text { Dist }}}$ |  |  | 100 | come |  | cest | chen | \％mm |  |  |  |  |
| Stinumin | cralan lisuct | Jame |  |  |  |  | Vat | Smere | ， |  |  |  |  |
| Sncter |  |  |  |  |  | － |  | atemen |  |  |  |  |  |
| ，min |  |  | mary |  |  |  | Framen 4 merit | 10， |  | areme |  |  |  |
|  |  |  |  | 10 | coud | ${ }_{\text {I }}^{1.250}$ | and |  |  |  |  |  |  |
|  | Trisiaia | － $\begin{gathered}\text { B．Cornwal } \\ \text { B．} \\ \text { Connmal }\end{gathered}$ | cose | 400，000 1 |  |  | diren wr |  | Erchy Hivitu．．．． | rxyrres bullimg． |  |  |  |
|  | ${ }_{\text {zem }}^{\text {Rem }}$ | B．Corrnel | ， |  |  | con |  | Sold |  | Tin matan＇set |  |  |  |
|  |  | －${ }_{\text {B．Coranwal }}^{\text {B．Coruval }}$ | \％os |  |  |  |  | merala | rem |  |  |  |  |
| Stater |  |  | （1088 |  |  |  |  | dat |  |  |  |  |  |
| Sndin |  |  |  |  |  |  | cale | ， |  |  |  |  |  |
|  |  | Stimble |  |  |  |  |  |  | Hen |  |  |  |  |
|  |  |  |  |  |  |  | （a） |  | Sory |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {Im }}$ | nid hill |  |  |  |  |  |  |  | Wake |  |  |  |  |
| Sose |  |  | ， |  |  |  |  |  |  |  |  |  |  |
|  | Hirigiain | B．Home |  |  |  |  |  | cole | marr |  | \％ |  |  |
| Helt | ， | m |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 崖 |  |  |  |  |  |  |
|  | Hu | mble |  |  |  |  |  | dind | W， | 410 |  |  |  |
|  |  |  |  |  |  |  | （mimuremo | Stater | $\underset{\text { W．}}{\text { W，}}$ | Sen mon |  |  |  |
| Tritoen $\mathrm{S}_{4}$ | Sen | Fe．Moony | \％mont |  |  |  |  | Statereme | W． |  |  |  |  |
|  | ， |  | ${ }^{16}$ |  |  |  |  | Tint |  |  |  |  |  |
| Comp |  |  |  |  |  |  | And | Himb |  |  | coill |  |  |
| Soll |  |  |  |  |  |  | 12， | maor |  |  |  |  |  |
| Ster |  |  |  |  |  |  | comel | ， |  |  |  |  |  |
| Amangin Eid x silier | Stay |  |  |  | ， | 4，800 |  |  |  | mantramy |  |  |  |
|  | : |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | mirier |  |  | tieet |  |  |  |
|  |  | $\left\lvert\, \begin{aligned} & \text { S.s.e.s.ity } \\ & \text { Luty } \end{aligned}\right.$ | 381 Machungtridst 31 a monlerm＇y st 305 moutgom＇s st |  |  |  |  |  |  |  |  |  |  |

## PALMBR, IAANCUM \& LU. <br> OLDEN STATE IRON WORKS,

 No. 10, Wirut strect, San Framelsco, ) roish Ciastings and Machinery of all kinds
## Cinuline White Iron Shoes and Dibs.

 palier, ha:iscumb \& co.
## To Quartz Miners.

Knox's Improved
AMALGAMAJING PAN, WITII
ALAMER'S PATEN'I STEAM CHEST. UE ABDVE COMBINATIUN SFCLREA THE, MOST




he public are informed that Lextlors Patent have heve
 sime withust hat ersotal. W. A. R.aldiki.

VULCAN IRON WORKS CO. TOLQQUET'
... MANAGFR.
fivers. C. r. Stelifer. S. ATKEN.

## Steam Engine Builders,

Her Malsers, Iron Founders and Gemeral Eugheers,

 Hr und quartz Mille, Pampiag and Mining Yachiuery,
ete..
ette.,
etc.
roprictors of Morsc's Patent Fire Grates,

## DEETKEN'S

hemical and Mretallorgical Works, On San Bruno Road, Islajs Creek, OLD bearing sclpherets worked at reas-




## LEWIS COFFEY AND RISDON,

CeAM BUILER AND SHEET IRON
Phe only exclusively Euiler Muking Establishmeat on 1. Puelice coast Owned and conducted by Practicul
Hiler dukers. All urders for New Wi, th, the repairing Hu Wurk, exueuted as orderced, and wurranted ab quality.
dd Stand, corner Bush and Market Streets. Upposite Urientul Hotel, Sau Fruneiken, Cal. f.EWIS COFFEY

## JAMES PHELAN,

(Late J. \& M. Phelan,)
IMPORTER AND JOBBER,
Wines; Liquors, Etco Etc. Nos. 616 \& 618 Front street,

All Goods Guaranteed. Orders Solicited. TELMS GIBERAL.

CHEODOR KALIENBERG
Maker of Models FOR INVENTORS.
$\mathbf{M}^{10}$
ACHINFS, MATHEMATICAL, Optical and Philosonh-
ical Instruments, Scales, Weights, ete.; Siceel ical Instruments, Scales, Weights, tete.;
Dies and Die Siaking, E.abocsitigstanpps.
iriny of Machinory promptly attenteil to Ropairing nf Machinory promptly attented to.
No. \& Sansome street, corner Market,
T.3m)
San Francesco. San Fraulesco.

## Voleanic Smelting Furnace.



| Open for the Reception of Guests. <br> This hotes his alit the momern mprant <br>  <br>  evnventance of the public fenterath the cunfort aud <br> News Stand, CABINET FOR MINERALS; <br> - A Brancle Telegriaph Ofice, Conaccting with all the linm thrunghantho country. LEWIS I.ELAND \& CU. <br> San Fraucisen, Jan. 1st, 1863. |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

John R. Sims,


Oregon struet, botween Wachington and lhavis and Fron
 Mes. All orturs rom the interiar Ureynat, Wathington Tertitory, Vincouver's Islath, British Cutmonin, ur any
placu mu the liscitic cuast, atteuded to with prouptuesis place ou the liseltic coust, atteuded to with prouptuess
and dispateh.

Mr. Sims Appreciates the Past


For the Informition of Strangers he would say that he feals couflilent that his exporience in hin particular ealling is surpassad by none ou
this basist, which his sulerior work, seat to almodt evohis bisist, which his sulerior work, seat to almodt eve wich Islatads, and to be suen oll some of the bust build hags in sint franersso, fully athast. A large ussortinea
of second himb shutters for sille at low rates. api3
Every Buckle bold will be guers the ther and Durability.

LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Having beeu connected with the public works of the saut of Slio for 20 yares, mud the pubb
surrvess of the Stute ot Califorvia for 7 years.

## ALSO

state locating agent.
Aud as such baviag the sale of 600,000 ACEES OF STATE SCHOOL LANDS,
At the low price or $\$ 1,25$ per Acre. Terms-Twenty pur cent in cash and the balance
on a crealit of several years.
 ner of Muntgomery and California streets. oct-3tn

HAYNES \& LAWTON,

CROCKERY, GLASS WARE,

## FRENCH CHINA,

Coal Oil Lamps, Table Cutlery, CLOCKS, Silver Plated and Britania Ware, etc., ETC., ETc.
NO. 516 SANSOME STREET, [CORNER OF MERCEANT,]

## NATHANIEL GRAY,

General Furnishing Undertaker, 641 sacramento st., Cor. of Webb, Shan Fraxicico.

FULTON FOUNDRY \& IRON WORKS

## HINCKIEX \& CO.,

manueacturers op

Steam Engines, Quarta, Flour and Saw Mills; Cast Iron Fronts, for Buldings, Mining Pumps,
and all kinds of Macuinery, Etc.,
and all kinds of Macuiner
FLRS'L STREET,

 at suuri uutice. Every style of Fissising to Irou when
cist. Rephuring of Machiuery peaty doute.

W. T. \& J. GARRATT, City Brass and Bell Founders
Cor. First \& Mariet sts., san Francisco.
B ABBET METAL CASTLGGS, FIRE ENGNES, FORCE aud Hund Bells and Gongs, Hose aud all olier joints,




## SQUARZA'S PUNCH,

FIRST PREMIUM
at the sacramento agricultural state fatr

## FOR 1862.

ALSO; FIRST PREMIUM
At the San Francisco Bay Distriet Agrieultural Fair, 1862

## Mantractory, whoirsale afd retarl,

No. 44 Leidsdorff street,
Opposite the What CheenHouse, San Francisco.

TO OWNERS OF WATER-POWER
Beth's Hydraulic Pressure Wheel

TKIC SLMPKE, COMPACT, STRONG AND eifective smanner in which it is mpplied to any beight of fall, (3 foet to 300 ,) and to any kind of machinery, will Suvo ia Transportutlou. Material and Labor, from

26 tu 60 per ceat. of tho outire cost of tho
Structure to which it ix applied, and propor-
For full butormatiou frum the Iavoubor, apply at the Hivers' Foundry, trom 10 Lo 11 A. M., or address
J. M. BETH.

- Miners' Foundry, San Francigeo.

O2. Thls Wheel if fully ctialantise. Juuldite

## To Mine Owners.

PARTIES having a Good silver Mina Muchmery to work it for aus interest in the Mine Will io well tu apply at hils ullec. No organized compisuy weod apply.

## 50 lbs MARINE and

Fire-Proof Paint,
ManClicturen by thl pacific merallurgical WI Wrorks this eity, lor Hullasad Decks ot Vessuls, tharge aus six ublier Sliwerals. Wheu used outhe Decks
 quitu equal to copper, no worms
cliea pur than ally other paiat.

## DIRECTIONS :

For Deeks of Shıps, use two parts Mineral Paint, ono part White Lead, miswith Liuseed Oil.
Fur Buttoms of Vessels, use out part ground sulphur three parts sliucral Yaid, mix with Coal tar and upply For sale by allShyp Chanders and Tradesmen, in boxe 50 ftss .

## 2G POUNDS FIRE-PROON PAINT.

When used on Roofs, Buildings, or Fences, it is equal Fire $P$ roof, und coasting leass than any panat parlectiy Fire Proof, and coasting lezs than any panut.

DIRECTIONS :
HUUSE :- Mix three parts Miueral Paint with one par
white lead, thiu with Lillssed ont: if a lighter color is white lead, thiu with hinssed o11: if a lighter color is Rouk :- Five pauts of Ahneral Paint, one part. white Lead; lux with Linseed onl. Put it thick ou a tia hood
us one coat when properly appliedwill hast threo yeure as one coat when properly appliedwill hast three years.

WORKS, North Bench; Office, 318 Oaliforniast., Sman Francisco.

## WRIGHTM PICKS.

$J^{\text {OHN WRIGHT, or Sucramento, has establisted hum. }}$ seff in sau Franciseof for the manufacture of every description of HCKS, of the best material, at reduced prices. PICK Ears or diters at low rates Orders from the country promptly
tity attended to. N. B.-None genuine uniess stamped with my uame. JOHN WHIGET, 511 BLarket street,

Opposite Buttery, San Jiracisco.

## REMOVAL.

OFPICE OF THE PACIFIC MEPAT

 uow enabled to reduce from 10 to 10 hous ol silver or
Guld ruck per duy. versmanibe sweepsugs reduced or purchased. culp lik diki-l lighest marker rates adpanced in cash, for shipmeuts. S. C. BRADEHAW, Ayeut,

## WANTED,

GOLD QUARTZ SUITABLEFOR
CUTING JEWELRY,
by frontier a. devierey,
Is ap
487 Pine streot, San Francisco.

FREDERICK MANSELL,
mechanical. \& architectural
DRAUGHTAMAN,
No. 4 ² Caliorniu street, corner of Leidsdorf.
Drawing of Monszs made for parties applying for pa-
nan 232 mm

## SPECLAL NOTICES.

| ffice of the Table Mountain Copp |  |
| :---: | :---: |
| Tweuty-live |  |
| le |  |
|  |  |
| nole immediatcly, in gold coin of the un |  |
| the secretary at theMontgomery street. |  |
| san Prancisco, way 18, 1883. |  |
|  |  |

The Annual Meeting of the Stockholders of the Thble Mountio Copper Compuay with be held
at the Otice of the company, Nu. 328 Moutgonery street at the Othice of the company, Nu. 328 Moutgonery street
on the second Mouday in Juve next, it 7 P M. M.
M. G. ELMORE, Secretary, San Francisco, May 18. 1883.
id.
Office of the Nevadu Copper Mining Co. March 24, , $\$ 663$. At a meeting of the bourd of Tristees,
held this day, in assessmeut of Forty foots per share Was levied upoll the Capital Shock of ite Gouspady, pay able twenty ( 20 ) cents per share within thirty days, and tweaty (20) cents per share withio sirty days from this
dato, to the Secretary. By order of the lrustecs, dato, to the Secretary. By order of the Irustees,

Office of the Tennesee Gold and Silver Miniug Company, No. 7, Moutgomery Bluek.-At a meet-
ing of the Board of Trustees huld April 22,1868 , an assessment of Oue Dollar and Fifty cts per share upon the capital stock of said Company was levied, payablo on or belore Saturday, the 28 d day of May, 1863 .
San Fradeisco, April $27,1863$.

Office of the San Franciseo Gold and Silver Miatug Company. No. 7 Moutguluery Block-At a meeting of the Buard ut Trustess, held April 20 , an As-
sessineat of Une Iollar ( $\$$ ) per share on the capital sessmeut of Une Dollar (\$1) per shart on the capital
stock of this Coropany was levied, payable on or be-

 | San Fraucisco, Aprit 27, J. H. BloOD, Secretary. |
| :---: |
| [mat. |

Office of the Sam Patch Gold and silver Mining Company, No. 7, Mont gomery Block.- At a
meeting of the Bard of Trusters beld March 30,1863 , an meeting of the Bnard of Trusters beld March 30, 1863, an
Assersment of Fifty Cents, (50 cts.) per share on the Assersment of Fifty Cents, ( 50 cts.) per slare on th
capital stock of said Company was levied, payable on o before Thursday, April 30, 1863.
J. H. BLOOD, Secretary.

Schmeltzer Gold and Silver Mining Compauy.-At a meeting of the Bourd of Trustes of
this Company, held Aprll II, $1863, \mathrm{au}$ assesment of 25 cents per share was levied, payable in tinted States coin, to the Secretary, at the office of the enmpany, No.
600 3foutgomery street, on or before FRIDAY, April 17 , 500 3foutgomery atreet, on or before FRLDAY, April it
$\begin{aligned} & \text { 1863. } \\ & \text { ap20.Im }\end{aligned}$ M. G. ELMORE, Seeretary.
J. F. \& H. H. SHAFER Manufacturers of and Dealers in
BEDDING and FURNITURE,

## of every description,

Blankets, Comforters, Sbeets, Etc., Ete. Nos, 504 and 506 Sansome Street,
(Near Clay, )
San Francisco.
This Establishment is now generally known to bo tho Cheapest Place in the City for good Bedding.
Branch Store. . . . . .Rroad St., Nevada.
T. ©. Sanborn d Co. STOCK BROKERS,
No. 630, Montgomery Street.
$0^{+}$
Phir siver minive stock,
gould \& curry mining stock,
chollar maning stock,
caifoornia steam navig tion co's stock,
BOUGHT \& SOLD.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principles and wituessed the operation of these Pans, that they are decidedly superior for trituraling and amalga-
mating purposes to any other in use. mating purposes to any other in use.
The minst important principle connected with the ope-
ration of these PaDs is the separatinn of the trituratiog ration of these Pans is the separatinn of the trituratiog
process from th:t of extracting the amalgam from the sand. The chict cause of loss of the precious metals ari-
ses from the passing of of the same in comlimation with ses from the passing of of the same in comlimation with
the quieksilver, during the proces of trituration, and in cleaning up. By the introduction of the Separating Pan to $f$, llow the trituration this loss is entirely aroided. In working these machines there is no appreciable loss
quicksilver, and hence none of the precious metals. uilissilver, and hence none of the precious metals. Where these Pans have been introduced and operated
oy the side of others on sands from the same vat, the oy the side of others on sands from the same vat, the
Wheeler Pans have uniformly gained a large percentage of metals over its competitors, as well as a still largel percevlage in the ampuut of worb performed.
"f: 'These Pans man be seen in daily operation, at the
Miner's Foundry, on First street in this city where al Miner's Foundry, on First street in this city, where al nol6-tif ZENAS WHERLER.

## PEOPLE'S

Steamship Line! connecting Califormia and New York VIA NICARAGUA.

The Fastand Favorite Double Engine Steamship,
MOSES TAYLOR, J. H. Blethen. be . . . . . . . . . . . Co
SAN JUAN DEL SUR,
From Mission street Wharf
WEDNESDAY, $-\cdots$ - June 10, 1863. Puncturlly at $90^{\prime}$ clock, A. M., on
Connecting at GREXTOWN with the Splendid Steamship America

2500 Tons.
Reduced rates of Passage and quick trips are secured by the reo opening of the Nicaragua Route.
These Sleaners are unsurpased
These sleamers are unsurpassed for sperd, elcanlitiess and anfety, aud every effort will be made to iosure the
comfort of pasaeucers comfort of pasacugers
For further iuforma
For further ibformation apply to I. K. ROBERTS, Agent,
220 No. 407 Washiugtun Street, opp. Pust omice.
International Hotel, Jackson Street, ........San Francisco, [A few doors above Moutgomery.]
FIRE-PROUF BRICK BUILDING.

> Most convenieut to the
teamer's Landing, Busincrss sts. \& Places of Amusement
OPEN ALL NIGHT
City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fine Bathing Rooma atteclen to the Barber Shop.
Warm and Cold shower Baths Free to Guests.
THOROUGHLY RENOVATED AND NETLLY FURaud Air. Facl t nomin is furnished with a forst qual ity Patent syring bed and Hair mintresses. Tho Interialion-

Best Furnished Famiy Rooms and sets as good a yanles as any House in the fity I am determined that the INTERNATIONAL shall be the
most comfortable, best regulated, und in all respects aumost comfortable, best regulated, und in all respects au-
perior to any like entablishnuent in the state, and shall aim to merit a eontinuance of the propular fivior it has
ejoycd heretofore. It will be conducted on Temperance edjoyed he
Principles

> F. E. WEYGANT, Proprietor.

## Tremont ETouse, 418 and 420 Jackson street,

 [A few doors from Montgomery,] Sian Frawcisco, CanTHIS FINE, FIRE. PROOF BLLLDING OFFFRRS MANY I udvautages to the travelor for convenlence. It is
only haff block frunt the Post office and Custumn House
and ubout the same distanco from the priucipal places o and ibout the
Amusement.

The City Railroad Cars pass the Door. The House is conducted on Temperance Principles, Whice secures to our guests quiet. The prices for bourd and Rnoms are rery moderate-
by the day, meal or week. Wha sulcit a call froal alh F. E. WEYGANT, Proprietor.

For the accommodation of my many guests, I have ta-
ken and refurnished the Intzirnatinsal. Hotet, and will ken and refurnished the Internatinail Hotel, and will
cariy ou the two huoses in comection, so that travelers cariy on the $t$ wo houses in connection, so that Travelers
wishing to put up at either house, may take the Tremont or Intervational Hotel Cosch and be taseus to citber Hous
with their baggage, Fra. with their baggage, Frer.
F. E. WEYGANT.

Percy Douglas, IMPORTER OF

CROCKERY,
FRENCH CHINA,

Glass Ware, Etc., Etc.
No. 421, MONTGOMERY STREET. SAN FRANCISCO.

## A.C. MORSE,

 Mining and Real Estate Agent,HAVING MADE ARRANGEMENTS With Miser S. Mastin Fsq., oue of the priacipal and SELH every descruption of Miniug stocks in - Esme. raldu District

## MYERS \& DAGGETT'S

Mining and Stock Exchange, No. $233 / 2 \mathrm{~B}$ Street, Virginaa City, N.T.
Mining Slocks of All Kinds Bought \& Sold.
Business connected with Miniug stocks of every descrip-
tion
tion prompty and curtiutentially ateended
*** Abstracts of Titles Furnished, Etc.

## Pacific Mail Steamship Company.

N OTICE

A rirangenients havedeeen made Gold, Silver and Copper Ores
can be furwarded under through Bills of Lading from Sad Francisco to England, at reasonable rates. For fur ther particulars apply to
A. B. FORBES, Agent,
28.t? Corber Sacramento mud Luidseorit streets.
P. M. STEAMSHIP COMPANY. NOTXCE.


$$
\text { 3d, 13th and } 23 \mathrm{~d} \text { of each month. }
$$

When any of the above dat $s$ fail on Suaday, the steam
er will be digpateled on the follorimg Mundiay
A. B. FORBES,
A. B. FORBES, Agent.

## Wm. P. TAAFEEE, hmporter and jobber of

## Staple and Fancy Dry Goods,

 CARPETS, DUCK, ETC.,
## Cor. Front and Sacramento strects,

 San Francisco.A. ROMAN \& Co.,

Book Establishment, a17 and 419 montgomery street, San francisco.

Orders respectfully solicited and promptly attender to Treatise on Metaliurgy, Compriaing Miningand Gen eral and Partucular Matallurg
Etc. By Frederick Overman.
Manual of Metallurgy, or A. Practical Treatise on the Chemistry of Metals.
ecords of Mining and Metallurgy, or Facts and Mem-
oranda for the Use of the Mine Agent and Smelter oranca for the Use of the Mine Agent and Smelter
By James Phillips and John Darlington.
Manual of Metallurgy, more particularly of the preciou metals; but includ ing such olhers as are employed in dental praclice.
Piggot on the Chemsistry and Mindig of Copper. Practical Mineral Askaying and Mining- Overman. Gold Mining and Assnying; by Pbipips. Assayers' Guide; or Practical directious to Assayers, Mi ners and Smelters,
Practical Assay ing, by Hichel!.
Practical Assaying, by bichell.
ilver Ores and Silver Mines, by Pro. Blake. ilver Ores and Silver Mines, by Pro. Blake.
Ure's Dictionary of Arts, Manumetures and Mines. Weisbach's Miccbnaics of Machinery and Eugineering Nevillo's Hydraelic Formula Tables.
Fresenins' Chemical Fresenims' Chewical Audysis.
Cogether with many other works in this
and similarlines 133- Books imported to order on short
A. ROMAN \& Co.
$417 \& 419$ Montromery Street.

New Patent Agency.

## W E Have connected wirh thee

The Patent Agency Business, And would invite Inventors and Discoverers ou the Pa
cific const, who wish Dispatch as well as biconomy to on upon us. We have an Experienced Agent at Washiug ton, which, together with our own experience of several

## Mining and Scientific Press Agency

The most desirable place to make application for Letter
Patent on the Pacific coast. Apply at
Oflue of the "Mining and
Oitue of the "Mining and scientific Press," Roon No. 27, Federal Buildng, coruey of Battery and Wagh
ingtou streets, (uirectly opposite the J'osi ofllce, Sinn
Francisco.
EWER \& SBilft. Francisco.

FOREIGN PA'IENTS OBI'ATNED By applicatiou at this office, Room 27 , Federal Building

EWER \& SMITH, Solicitors.

NOTICE TO INVENTORS. nyentors wishing to file Cavents should apply at this
Office, Room No. 27, Federal Building. Terms moulerOffee, Room No. 27, Federal Building. Terms muler.
EWER $\&$ SMTH.

## PATENT RIGHTS.

Patent Rights Bonght and Sold, At the ofllee of the "Miaing and Scientific Prems", Agrncy
EWER \& SHITH.

JMPOR'IANT TO INVEN'TOLiS.
Inventors who obtain their Patents through this onfee can hatve their Inventions illustrated and deseribut in the columns of this paper Fras of charge, they mercly
furnishinit the eogrtwings. We areaiso prepared to furnishing the engriwings. We are aiso prepared to fur-
uish cngrivings at reasonable rates. Thone what do not care to g" to the expense of having engraviugs prepared can lave their inventions fally noticed and described in
our columns, free of charge. The free use of our col. nur columns, free of charge. The free use of our col-
vmus to uill them in introducing their Inventiong in the umus to aill them in introducing their Inventions tn the
public will be found a roost important advaotage to inrublic will be found a most important advantage to
ventors.
EWER \& SMITR.

> P. M. S. CO.

DACIFIC MAIL STEAMSHJP COMPANY' rond with the steamers of the Atlantio and Yacli rond with the steamers of the A
Steamslip Compay at Aspinwall.

## FOR PANAMA.

The following Steamships will be dispatched in thal moath of May, 1863.

Way 13th, - - - - Steamer Orizab May 23d, - - - Steamer Golden Agor

Will lenve Folsom Street Wharl, with Passengera anc Trensure, for Punnma

AT 9 O'CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railroad, at Aspinwall, witl
For Freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento and Leilesdorit sts.

## Miners Foundry <br> MACHINE WORKS

First St., between Howard \& Folsom, san francisco.

Civery description of iron and brass bach in the state of Califoruia, wall be furnished with patch at the Miners ${ }^{3}$ Foundry and Machine Works, 88 :
Steam Fangives and Boilers, Flower, Snw and Quar mill machinery, Mining I'umps, Amalgamstors, Retor

Particular attention will be given to the manufacto of Machinery in Sections, designed for places of dimely accers, Various mudels of Quartz Crushers, Amalgam.
tors and Water Wheels-some in operation and en extu bition. Water Whecls-some in operation and ou cx ${ }^{*},{ }^{*}$. Parties desiring to test their ores practically,
smill quantities will be afforded ample facilities, free cost.
All parties desiring accurate and bighly finished drat ings and Superior Macbincry, at most reasonable rat
are cordially invited to call before contracting elsewher

HOWLAND, ANGEL \& KING. San Francisco, February 23, 1808,

## SPECIAL NOTICE.

We wish it listincrly understond that all the interest which Julius Silversmith ever had in the Mining and Scientifie Priss, ceased in Nuvember of 1862. Eifer \& Smitu are now the publishers and proprietors.

## FROM THE AMADOR COPPER MINES.

Jachson, May 25, 1863.
Mr Eiditar :--I semel herewith a box of specimens from the Oriental Company's Claim on the Oriental C'opper Lode. No. I is taken from the most promineut croppings. in the middle of the claim. IFere the walls stand apart 20 feet, and bet ween them is what ull copper miners call a "bloom," indicating an immense mine. The walls and the gossan between them, are well defined through one thousand feet of the cla m, in a straight line. No. 2, is from one of the boulders of ore that were fund on the rein above the surface. No such ore is found in any part of the rein except sear the surfuce.

The gangue has all the varieties common to well defined lodes, three specimens of which I send you. The malachite occurs near thesurface. Then comes the "harn ore" and red oxide, rich in copper, occurs, as the casing of the rein, and at the depth of 25 feet, give place to the black oxides, containing copper aud silver, with traces of gold. 'This casing lugs the head wall, and is but a few iaches thick. Next to this occurs a solid rein of black oxide and yellow and gray sulphates of copper, varying from one foot to five in thickness. The "live muxdic" then occurs filing the balance of the lode to the fout wall.

We have, as yet, only fainly commenced to open this mine. As we proceed I will keep you posted as to all new developments. The shaft we are now putting down is by no means on the best part of the mine, and the most interesting developments are jet to be made.

The lodes in this district run North, $15^{\circ}$ West, and South $15^{\circ}$ East, and the underlie, or dip is to the East from 10 to 20 degrees.

The Cosscmeses Co., whose mive is near and West of the Oriental have out, and ready for shipment from Five to Seven Hiundred Tons of excellent ore. These two and the Newton mine are the only ones in Amador crunty which are taking out ore in large quantities; but several others are being opened with sp'endid prospects. Thousands of dollars are chauging hands, daily, in this County, on Copper "feet," but the mines that are opened the best, and which are rich beyond a doubt, are not in the market. You will please take notice, down at the Bay, that little Amador is an immensely rich County. More anon.
Yours Truly, I. B. FISH.

A Grand Union Promenade Concert will be given by the Temperance Societies of San Francisco, in aid of Mr. H. 'T. Sllfer, on Thursday Evening, June 11, 1863, at Platt's Mall. Ticket, (admitting Gentleman and Lady,) One Dullar.

THE DEL NORTE COPPER MINES.
We learn from a gentleman recently frem the Del Norte Copper Region, that heary slipments of ore may soon be expected from that quarter. The luck of road communication between the mines and the seaboard has hitherto been a great hivdrance to the working of the mines of that region, as energetially as their developments warrant. This inconrenience has now howerer beenina great measure overcome and the miners have already commenced work in earnest. The Aita Company have about 400 tuns now ready for moving, and their ninue is so opened that they can easily raise fully 2000 tuns additisnal b fore the raining sea:on sets in. The Eroca Company are also raising goud shipping ore and have several tons already upon the surface. New d:velopments and important discoveries are constantly being made and the excitement consequent therenpon is drawing off day laborers to an extent which if continued will render it impossible for the old companies to procure the necessury labor to continue their regular working.

We have the promise of full and regulur correspondence, which will keep our readers posted with regard to mining progress in that district.
We would take occasion to mention, in this connection, that persons interested in the mines of this region, or desirous to become acquainted with their locations, will find a very full and accurate lithograph map of this country, giving the location of the principal mines, roads, ete., at Bancroft'e on Montgomery Street. This map has been carefully pre pared by Mr. R. B. Randall, County Survejor of Del Norte, and will be found very full and correct.

## THE HUMBOLDT SALT MINE.

The Salt Mine of the Humboldt District has been carefully surveyed, and fully taken up and rocorded. 'The entire sur vey embraces 17,000 acres. The salt deposit covers an area of 11,000 acres ; the balance of 6,000 acres included in the survey, consists of salt marsh of the stongest brine. This marsh has been included in the survey for the purpose of preventing outsiders from coming in and manufacturing salt from this brine, and thus interfering with the monopoly which the holders of the depos $t$ hope to maintain. Under a monopoly of the kind forshadowed, this deposit must become very valuable, as it lays directly on the probable track of the Pacific Railroad, and immense quantities will soon be required for the treatmeat of silver ores, in addition to that needed for domestic purposes. We presume the entire location will eventually be consolidated into one Company
The valley in which this remarkable deposit is found is supposed to be abont 500 feet below the bed of the Humboldt River, and is a region of the most intense heat in the summer season. The depth to which the salt reaches is unknown. On snking into it, water or rather brine commen. ces percolating into the shaft or excavation at the depth of five or six fet, and an opening thus made will, in 2 few hours fill quite up to the surface of the deposit. This wa
ter will, by crrystalization, soon become a solid mass if the purest and whitest salt. The depth of the deposit has not beeu ascer aied, and probably never will be known. The quality of the salt has been found, by caroful analysis, to be very superior, fully equal to the best Iiverpool. A wagon road is now in prucess of construction to conuect the Salt Mines with Reese River.

## GOLD MINING IN WALES, ENGLAND.

We have received a communication from our former fellow citizen, J. Moshemar, Eson, now operating among the mines of Dalgelly, in North Wales. Mr. M. writes, iu substance, as follows, with regard to those newly developed gid fields:
"If I should tell you that there are, in reality, good gold mines in Wales, you would place just as much confidence in the statement as the people of California did in the first reports of the discovery of silver mives in Washoe. So it is here. People in London, not only the common people, but scientific men also, will not believe what they can learn, hy the evidence of their own senses, in a journay of 12 hours. They are so prejudiced in the matter that they pronounce it all a humbug that paying gold mines exist withon a few hours ride of London. Yet it is a fact 448 lbs of gold has recently been taken from a single mine in Wrales. When I first talked of visiting these mines, pecple in London said to me, "dou't go down there, it is not worth इour while; there. is no gold mine there that will pay."
I nevertheless went, and have since put up machinery, worked some of the ore, and obtained about one ounce per ton, and I am now putting up six Reduction Works-for different Companies."
Mr. M. writes that in addition to the unibelief which so generally exists, with regard to the reality of the gold. mines, there is also a great lack of knoucledge with regard. to minir ing for gold. Much prejudice also exists in relation to the introduction of any foreigu appliance for the saving of golid or the reduction of its ores, and our correspondent thindis if the mines are generally found to pay it will not be in consequence of the skill displayed in working them, but because the mines are rich and labor cheap. He also writes that the loss in working is enormous, and that if any person rentures to suggest any new appliance he will not be listened to a noment. Mr. M. is throughly conversant witb regard to late improvements in working ores both in California and Germany, either of which countries he considers for ah. ad' of Wales in the particular sp: ciality of gold mining.
We should be pleased to hear often from our correspondent, but would euggest that he should endeavor to be as liberal as possible in regard to pre-existing modes and ideas. of working. California as well as England, and indeed, ev-ery other country, is usually extremely sensitive about casting aside established ideas and modes of mechavical operation for that which is new or, to them, untried. Mr. M.. however, is taking the right method to crnvert his unbelieving neighbors by putting his new machinery to actual test.. Men will seldom refuse to acknowledge the evidence of their senses, especially when it bears directly upon their pockets.

## WATER PRESSURE AS A MOTIVE POWER.

Among the many problems that science offers her vota ries for solution, none perhaps have attracted more attention than the attamment of the most economical and safest application of power to machinery. The application of steam and the introduction of coal have wrought greater changes in the world, during the past ceatury; than all other human appliances combined, from the days of Archemides to the present era. The great mechanical study of the present time is the possibility of superceding steam. Air, electricity and water or hydraulic pressure, are the means suught to be employed in accomplishing this object. Errickson has already made bimself famous by his efforts in one -lirection, aud something approximating to practicabillity has beeu accomplished ia bringing into suljection the subthe though tremendous power of electricity. Many insentors are also in the field searching for some mechanical contrirance by which to render arailable, for motive purposes, the powerful force exhibited in the ordinary ITydraulic Press. Motion, to a limited extent, aud in a rectilinear direction, is eas ly communicaterd to a column of water; but the difficulties in the way of its practical application for driving machine $y$, must appear to all cotrersant with ordina ry hydraulic op rations, as rery great. Still, various mechanical contriances have, from time to time, been derised which to a great extent, have evercome these difficulties. The first machine of thiskind, of which we have seen auy notice, was erected in England in 1765 . Improvements have heen made from time to time, by other inventors. These machines were at first coustructed for pumping, at the mines and like the early steam engines used for such purposes, the upward movement of the piston was produced by 2 weighty leverage. Cyl nders are now, however, constructed, much after the manner of the ordinary steam cylinder, aud the water is made to drive the piston rod in both directions. All engine is now at work iu the Alport mives, Derbyshire, England, with a cylinder 50 inches dianeter with 10 foot stroke, es imated at 108 horse power. A nother engine of somewhat differeat construction, but by the same make, is in operation at the Minera Mines in Nirth Wales, with a 35 -inch cylinder, 10 -foot stroke, pressure column of water 227 feet high. pressure on the pistou 98 lbs. per square inch, in a total weight of 40 tons on the piston. This machine is saiả to work very satisfactorily, recquiriug no personal attendance. The motion is certain and continuous so long as the working parts remain in order; consequently the cost of maintaining it is of the most triffing amount.

A late Inglish paper gives a description of still another machine of this sort, recently invented by Mr. Henry J, Lewis, an Engineer connected with the water works establishnent of Wolverhampton, Eng. This machine is now doing the actual work of a large stenm engine, in the most satisfontory maner. Its mechanism in appearance is much the same as that of the steamenciue, with the exception that it has two globes or air vessels upon the cylinder. The action is very simple. The water is supplied to the engine from the main by means of an ordinary pipe, and can be turned on or off by means of a common stop-cock at pleasure. When the engine is about to be set to work, the water is allowed to pass into a chest or nozzle, within which is a slide-valve, the same as is used in a steam-engine. The water, having filled the nozzle, rushes through the passage that is not covered by the slide-valve into the cylinder, forcing the piston along with it, at the same time compressing the air in one of the globes or air-vessels until the slidevalve shnts the passage ; when the air that is now compressed in the one glube, by giving a certain amount of elasticity to the water acting on the piston, enables the cramk to continue its motion. After the volve has covered the one pas sage, preparatory to opening the other passage for the return stroke of the engine, the same process is repeated. Thr. rectilinuar motion is converted into a rotaly motion by means of a comnecting rod and crank, and applied to the purpose for which it is required by ordinary pulley bands.

The advantages which would attend the successful intro duction of water pressure engines must be very great. Such machines could be used wherever it is convenient to take water from a main service pipe, in cities or elsewhere, or Wherever a small supply of runving water can be obtaioed at a great elevation-an incline of any exteut being equally as available as a perpendicular fall. No boiler or boiler fix-
ings or cumbersome water-wheel would be needed. There is going on, yet there are some very fine ledges there. The would of course be perfect freedom from danger by explo- Mounlight heading the list of course.
sion. It wonld require no supervision beyond the mere turning of a stop-cock to start or stop it. It may be workedat long or short intervals and no time need be lost in "firing up." The construction according to the above description is very simple and would in consequence be of slight cost, while the charge for water would be much less, even when purchaved as in cities, than the expense incured for coal and attendance upon a stean engine.
Au engine possessing such advantages would be of incalculable value in California where its applicability would be so extensive for the, varions purpos:s of pumping, lifting milling, \&c.

## HUMBOLDT CORRESPONDENCE.

Unionville, N. T. May 21, 1863.
Editor Mining and Solentific Press.-In my last letter I confined myself principally to Buena Vista District. I shall endenvor now to po tyour readers upon some of the other districts although I am not so well posted myself as I might wish to be. I will commence with Star which has the Sheba, Mammoth, Frau'lin, Yaukee, Jeff. Davis, Daniel Webster and many other very good ledges. The Sheba already has a great reputation in your city, and as nothing that I could write would be likely to increase the confidence of yourcitizens in the richness of that mine, I will simply say that scieutific and practical miners bave pronounced it the richest mine in the rorkl. They are at work on the Jeff Daris, Webster, Yankee and American Bason Companies' clams. All of these ledges are supposed to be good and they will all soon be opened in fine style. In Star' district also is the San Bernard ledge which is the best defined of any ledge in the frumboldt mines. It crops out from eight to twelve feet wide and about three miles in length. The Enterprise, Eamle and San Benard Companies are now at work sinking shafts on each of their claims. This ledge runs across the momitain into Humboldt district. Ihe mineral is of a superior quality and pretty well defined through the ledge. In Santa Clara several companies are at work, tmong them are the Magna Charta, Kentucky, Lxcelsior and W yoming. The W yoming, Union and 'Tehama companies have recently filed their articles of incorporation. The principal place of business of these companies is Santa Clara with a branch office in San Francisco.

## nembordt district.

In Humbald 1 istrict they are at work on the Winnemucca. Jenny Lind, Melrose, Munboldt and Critenden ledges, most of them taking out paying ore. The Highland ledge, in this district is rery rich and well defived and ar rangements are now being made to have it opened.

## sierra district.

In Sierra District considerable work is going on. The Auld Lang fyne company are now hauling rock to Homfray's mill for crushing. The Cresus is also at work with fine prospects. The Douglen, Badger and Annie ledges are looking up.

> alabama drstrict.

In Alabama District the Oro Fino Company are running their tunnel as fast as possible ; will probably be in within a month.
The Bowling Green and Glenbrook companies filed their articles of incorporation last week-incorporatiug in this Tervitory. The former with a capital stock of three hundred thousand and the latter with a capital stock of ane hundred and eighty thousand dollars. The Bowling Green ledge is thirty feet wide and rich in silver on top and nothing to do but haul the rock to the mill and bave it crushed In this district is the Solo, Missouri, Golden Fleece and many other rich ledges.

## table mol-stain district.

In 'Table Mountain district the Champion and Silver Cord odges are taking the lead. They are both very wide and well defined. The shaft on the Champion is down about fifty feet and they are taking out some excellent ore. In Echo district the Washington conipany are sinking their shaft as fast as possible and taking out some fine specinens of native silrer.
In I'dian and American districts but little

In Buena Vista the work of opening clainis is going on briskly. Many companies are being incoxporated. Some of them in San Franci-co, but most of them in this 'l'erritory. A road has recently been laid out from this place to the Salt Mines, e-mnecting with the Reese River road or at the mouth of Cottonwood Canon on the Overland Route at Fairriew Station, making the distance from this place 1 Reese River eighty miles.

Near Cotton Canon is a high range of mountains which bear erident signs of violent voleanic liruptions and, from the indications, a budy of burning lava must be near the suface. Not a particle of regetation can be seen, aud upon remoring the crust or surface for a depth of thur or five inches the heat is quite intense. Near the mountain brimstone is found in considerable quantities, also fine sjecimens of native conper.

## extent of the numboldt mints, de

What is now known as the Lumbldt mines is double extent to what it was six months ago. The Last Range i beginning to attract as much notice as any orher portion the nines. Most of the ledges there are large and well d fincu and as fur as prospected they are rich.
'limber is quite plentiful on the East Range, which is no mall item in a mining country; but the old Humboldters will still keep ou prospecting and extending their prospect ing tours to the second and even third ranges lia-t. I hope the imegration from Califoruia will lse composed of men who are not afraid to exercise their muscle. and that they will be content to devel p and work the ledges that the ueasy and ving adventure 8 find for them.
Our country is settling up quite rapidly and I presume from what I can leam by parties recontly froni Californin, that the arrivals at the present time are nothing to be compared to what they will be in a few weeks. But let them come there is work and room enonto for all that may arrive and if they are not satisfied with the country they will ceitainly differ with

Quartz.
Imprormants - Numerous substantial improrements are constantly being manle on all the principlal business streets throughout the city. Indeed the prospects of our city aud state were never so flattering as at this present time. 'I'lie astonishing developments of the principal silver mines on the Eastern Slope; the coutinued, if not increasing yield of the gold mines within our own state, and the now settled conviction. that we are just entering upon a new branch of mining, which is scon destined to fulty ergual in importarce either silver or gold, is inspiring capitalists with a drg ee of confidence in the permanency and growth of our city, which they never before have felt. This confidonce is erery where manifesting itself in valuable city improvements, and in the construction of a vast amount of hervy machnery for the still further development of our mines. San Francisco is now making most rapid advancement in both commercial and mechanical enterprise. With the development of the mines, especially thase of copper, commorce and mechanics must go hand in hand, and will coutinue "marchiug ou," until the Queen City of the Tacific shall occupy a position in the foremost rank of the great cities of the world.

Impression of Leates.-Take half a sheet of fine paper and cover the surface with sweet oil. Let it stand a minu'e or two, then rub off the superficial oil and hang the paper in the air ; when almost dry, more the paper slowly over the flame of a lamp or candle till it is perfectly black. Lay on it the plant or leaf; place a piere of clean paper over and rub it equally with the fingers for half a minute; then place the plant or leaf on the scrap-book where it is desired to have the impression; cover it withbloting paper, and on repeating the rubhing a representation of the plant will appear, equal to the finest engraving.
New Subway in Londox.- \& new subway for gas and water mains is talked of in Lond in, and cere long every promnent s'reet in that city will be tuuneled loy a subterranean receptacle for the numerous mains which anderlicall the thoroughfares. They would certainly save much aunojance and expence, by avoiding the necessity of so frequently breaking up the streets, as is now indispen able whenever water or gas is introduced juto a loouse.

## MINING AND SCIENTIFIC PRESS.

## RAILROAD FROM MARYSVILLE TO OREGON.

S. (i. El init. Jisq., of A uburn, has recently returned forn a peliminary examination for a railroad from MarysHo to ()resal. The di-tace is about tion m"los. and the Gute is frnanded eminently practicablo, and atmissibte of by gradi is ith the excerption of a section of about 50 miles for the menntains from Klamath to Rogne Rirges. With his pacepti es the roal is mostly through level valleys. Mons y enough his hern gramanteed afong the proposed tine of fer road to erey for a preliminary survey, which will be nurtaken f.athith. Uregon, Inerior and Sorthern Calirnia are riol in iron, coal, copper, lumber, fruit, arricultuI productions. wod, ate., all of which would find a market od cheap tramsportion orer the proposed railmad. The "ple and th, "solid men" along the route and all throumb pe interion if rewom are enthasiastic for the roxd. Its ,nstruction! at an early day, will be fond not unly a conrience hat an imporative necessity.

Iichinon tim: Mmad Witers of the Missouri-Mr. Bur--igh, the lialian Agent, writes to Commissonev Dule, at Fashingom, that gold in immense quautities has recently fen disencem near the head waters of the Missouri, 200 iles west of Fort Bentow. The 800 miners who are alady there lime Cilifornia and Columbia River, are aver-

 Inclish! palpur from Otago, New Zealand, estiante the wekly pru?cct of gollat that point at 10.000 to 15,000 ances, equn! t. Sin, 1100,000 a year. New gold fields were eing oren ! in all directions.
 on from Tunktu, France, in the Messenger du Midi, says: "The latinur ug of the frigate La Gloire in the Castiguean uck has dieduzed three unexpected phenemena. First, hat the cantuct of the copper lining and the sulmered dron lates hate e=tablished a galvanic current, which prentuced the effect uf: a voltaic pile, and was completely deterinating he armor ail the fricate in the par s below the water lines reol dly, that a spreies of shell ti:h, hitherto unknown. Tras flerwards discovered among the millions of mollusce by thich the hull was corered, apparently produced ureler the hfluence ni the same galranic current; and last! 5 , in the fold of the ressel 22,000 litres of wine were foum to be ransformed into vinegar, it is not known by what influ. nce."

25s Trie new organ which has been imported for Minsic tall, Bostun, is described as a splendid affair. Its cost when finished, will be upwards of $\$ 60,000$.

## TO MINERS AND PROSPECTORS.

In view of the frequent accilental discoreries of valuable phineral depisits, other than gold, in almost erery section of the State, which have of late been mude, it is but reasonahe to sumpuse that prospecting even in California, has but fust commencel. The simplest and most universal of all netaliferous deposits is gold. It rarely occurs in any other form than that of "free gold" which is readily discepmable to he naked eye. An examination of any rock ( 1 earth for cold is an extremely simple process. If its presence is suspected in alluvium, the simpla washing of that alluvinm in a pan is an invariable te-t. If in rock of any description thal rock pounded fine in a mortar and washed, in the same mauner as alluvium, will usually expose its gold to the naked eye, if there is any there in paying quantity. The only exceptions, are where the gold is contained in iron pyrites, or copper pyrites containing also iron. In either of the two latter cases the presen.e of gold may be readily ascertained by placing the pyrites in any suitalle ressel and keeping the contents at a moderate heat for from four to six hours, with frequent stirrings, by which means the silphitur will be evaporated, and the copper, if any is present, changed to a dull red color, and the gold retaining its natural appearance, on subjecting the whole to the usual pauning process, may be readily scen by the naked eye.

Not so rith othermetals. Silver, copper, zinc, nickel,
and many others appear in such a great variety of metallif(ruus forms ats generally to dufy all but the must practical and ssimentitie cye. Nis description of these wres can be written which will aflome my very important ain to the inexpronneed in making explonationz. A'ter raubing descriptiuns, however, ched curofully coramining the speceimens foscribed, the explurer may go out and sabell with come degre of confinence sum intilitence A staty of the characteristics of the sulpharet ores aleme, wound hema an expleyr to pass over, cutirely unnoticed, the rehest varinties if the ores known as. Chlorides or llurn silver, which, from the facility with which they may lo worked, and their neval richness, are generally consilered the most valuable of silver ores. There is much reason to believe that this variety of silver ore will he extensirely found in all the volenuic regions of this sitate. So with many other ores.

Considering the great difficulty, in the present luck of calnet collectiors, and other means of instruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resantecs, we hereby make the offer to m ners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefu'ly examiue and pronounce upon the same, free of charge, as to their char-acteri-tics, value, etc., whenever any such epecimens are brought or seut to this office free of cost to us. We have atready been called upon in many such cases, and we shall at all times be willing to gire our attention to any such requests which may be presented to us.
In canying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. Tne ordinary rocks with which the miner meets III his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at onee bo given to it. There is scarceIy a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or nrar a vein of quartz it should be carefully examined "in place." and if the cause of its pecullarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possible all the ordinary nineral substances which may be likely to come nuder the notice of the California prospector. 'These articles will be published under the bead of "'Ther Miner's Laboratory," and will be found of great ralne to the mining public. [Mining and Scientific Press, April 20.

Subscribe.-Are you a miver and not a subscriber to the Mining and Scientific Pres? If so, you are au annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, sou can find no papr that will be read with so much eagerness loy them, or one that will convey to them so full an account of the real industry of the country as the Mrsing and Scientific Peess. We invite all to send us their names and four dollars, or two dollars for six months, and hecome patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our nsual castom to receire a subscriber for less than six months; but iuasmuch as we are anxions to introduce the paper where it is not now known, we will, for the present, send the Press for three months erev, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to dipcontue the paper after being a constant readar of it for even that shor't periou.


|  <br>  <br>  <br> C. W. M. SMITH and W. B. EWEE, <br> Eagervinge, Electroigipes, cte. <br>  <br>  <br>  <br>  <br>  <br>  <br>  virtinitg Medmat the fund mithe conntry. |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## To Printers.

Ay Istarast in one of the matal flomanding and heat puy
 sulf in a gonel buathess in one of the heallunest, most thriving and dhytat mint mou
"ABice.

## MINING AND SCIENTIFIC PRESS.

## THE ONKX Mintig, mectuntcl and scientific

 Paper on thy cpntinent.THYRD TEAR: FOLCME NI-NEW EERIES।
A uew rolume of this extenswely elreultated paper enmmaneml Ebit. 17.
 with several original engravinge, of new inventions, etce, prepareal cxpress, For its columbs.
Thita paper is devoted to the nbore purposen, fegether with the interes? or Femen, Arte, Agriculture nud Commerce, mid any genarab infurmation
 tor or suare tho pains or expense in making
fuformatiou to any paper yut published.

## The Mining Interest!

Will find it of great value, as it will contain all the news atpoptaining to Aining, the prices and sales of Mining Storks, new inverntions of Machinry to the Miner.

Will fint it an excellont medom fur the purpose of bringing his iuvention into notice, of ascertaing that prorress of invelition in this and othor in olbtituing his pateot, the preprictor having had great experimee ns Iratent Agent, togecher with facilities at Washington that cuable him to ob diu I'utenta with dimpuch.

## The Mechanic and Manufacturer !

Will be greatly bebefitted by its nerusia, as cach bumber will contim scis eral oripinal cugravings of hew machines and inventions, fogether with y
 shall continue to extract whatever may be of benefit or iuterest to oureaders.
To Chemists, Architects, Millurights and Farmeq's ! This journal will be iuvaluable. All new diwoveries in Chemistry will i,
 wot be neglected, engriwines will be given of uscicultural implements, aud the farming interest gencrally will be umply discussed.


Club Copies for Six Months, \$8.
Ten Copies for Six Mouths, $\$ \times 6$.
Firteon Copies for Twelve Montlis, $\$ 44$.
Twenty Conies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subserintion is only $\$ 9$ eo
Names can wo sent in at different times and from diferent Post-cfices Names can be sent in at different times and from different Post-cfices
Specimea copies will be sent gratis to any part of the country.


Room 27, (formerly) U. S Court Builiting, Corber of Washingts and Fa

## Our Mint, its Rules, Charges and Operations.

For parting silver from gold when gold
is below $300-1000$ ths. fine
from $30-100$ ths. $10750-1000$ ths fine. 7 cts" per oz 750-1000ths to $950-100$ ths " lat ets
Drposits Silver Bullion--Purchasis.
\$1.21 per standard ounce $\frac{1}{1} 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 3ets. per oz. gross weight

## 301 " 500 , 7cts

## Deposits for Fine Bares

\$1 16-4-11 ths cents. per standard ounce, 考 per ef. gross value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in puichases.

## Bars Sold Fron Refinery.

$\$ 121 \mathrm{cts}$. per standard oz. 1/2 per ct. gross value to be ad ped for making bars.

Depositmd for Dollars
\$I 16-4-11ths. per standard oz. $1 / 3$ per ct. gross value for coining, when gold is contained, refining charge the same as a purchases.

Deposited for Imported Bars.
$\$ 116-4-11$ ths. cents per standard oz $1 / 2$ per c . gloss alue of deposit for making bars.

THE MINERS' TABORATORY.-NO. V.

## mLNDIC-PYRITES.

One of the most common characteristics upon and near the surface of a vein of copper is the appearance of large quasitities of Pyites-sometimes called Nundic. Whenever this mineral is so found, in great abundance, especially if in a region productive of copper, the miner may lave the utmost confidence in prosecuting the work of dereloping his veiu. Pyrites are most usually y llow, varying from nearly the color of gold to an iron white.

Pyrites sometimes contain, mechanically mixed, small quantities of gold. They are then called "auriferous pyrites." The gola mines of California contain layge quantities of this description of mineral, and thonsanos of tons are now being worked for this metal. They are, here, usually concentrated from the sands which hare passed througi the ordi- ary gold amalgamating processes. One of the most extensive and perhaps the most thorough establishments for working uuriferous pyrites, is that carried on by Mr. Deetkin, a short distance from this city, on the sau Bruno road.

Copper pyrite constitute the priveipal ore of th.t mineral, and frequently occur vers massive, occupring the elltire width of a rein, sometimes many feet in thickness, but oftener in strings and bunches comprising but a small percentage of the entire contents of the rein. Copper pyrites is not considered a rich ore. Their yield of copper is usually from 12 to 20 per cent, rarely reaching 25 . The richness of this ore may generally be pretty correctly estimated by its color. If of a fine yellow color and readily yielding to the hammer it may be considered a good ore; but if hard and of a pale yellow color it may be set down a poor quality of ore. The color and consequently the ralue of this ore is attributable to the more or less abundant presence of iron.

## gossax.

We hear u.uch said among copper miners and prospectors for copper, about "gossan," and furthermore that the appearance of gossau is a good indication of copper-and so .it is. The question is also often asked, "What is gossan?" Gossan is nothing more nor less than decomposed munilic, or iron pyrites. It is usually of a yellowish color, some times, howerer, appriaching to black or dark red. The geueral composition of gossans oscilates between the two extreme results as giveu below :-


The term, $g$ sssan, originated in Cornwall, and for a time was local, but is now quite generally used in this country also. The existence of muadic or its common resultant, gossan, is not unir ersal. In some rich mining districts no irou, or rery little at most exists in the veins ; in such, the ferrugineous stain is wanling and gossan is not seen.

In Califomia, we presume, from copper explorations thus far made, and from the general character of all our quartz reins, gossan will be almost universally met with, and whereever it or mundic is found, rich and valuable ores of copper, and possibly of tin may be coufidently looked for at depths rangiug from 15 to 50 feet beseath. Gossan, of itself, is generally of but little ralue, although it sometimes contains small quantities of both gold and silver, and not unfrequently copper. It is often fouud, in small quantities, far down on the vein.
Beneath the gossan, we frequently observe appearances strougly reminding us of the common electrotype process for procuring copper from a solution of sulphate of copper. The pure metal is gathered together in chinks and cavities between the main mass of gossan and the body of the undecomposed copper pyrites, mingling nerhaps with the lower part of the former. Sometimes this native copper, as it is called, may retain its me:allic character; but at others it becomes converted into an oxide, and this again into a carbouate, by the percolation of wa'ers containing common air and carbonic acid.

With regard to the formation of this native copper it is p-obable that the sulphur, by a nuion with the needful oxygen, becomes sulphuric acid, and that, this formed, the oopper is attacked and remov, $d$, to be dealt with like any other solution of the sulphate of copper.

We can hardly conceive it possible that the copper, fluid state, has beeu forced up from below like dikes of porphyry or greenstone. An elastic force sufficient to raise a fluid mass of three times the deusity of lava would shatter the enclosing walls, and force the copper into the fisisures. If this were its origin, we ought to find it occupying the depressions in the surface rocks in the vicinity of the fissures, like modern lava cu rents.

We find the copper investing various crystalized miverals; and every ware and stria of the pre-existing cry-tals is faithfully represented. It is impossible, by any artificial method, to cast any metal su as 10 exhibit such minute lines They are as deli cate and faithful as could be obtained by the electrotype. Again, the associated minerals do not exhibit the effects of a high $t$ :mperature. Also, if the contents of the reins were the result of iujection, their productiveness would be unaffected in their passage through different nineral planes. Lastly, copper and silver combine in indefinite priportions, forming a lomogenenus compound; and yet we find them existing side by side almost chemically pure. Admitting that they once formed a bomogeneous compound, it is reasonable to suppose that they have been separated by electro-chemical agency.
We shall speak more fully of this supposed electrical adion in copper and other mineral reins, in a futu-e number
[We have received, from a thorough and practical minaralogist, a commuaication, con aiuing much raluable information, in addition to what we have air. ady given, explanatory of the various methods by which the presence of copper in any mineral or other matrix may be readily ascertained by the prospector; also a list of the chemicals and other apparatus requisite for such tests. We shall insert the communication, next week, under our Laboratory head.]

## PRACTICAL MEN WANTED.

The Mechanics of San Francisco have inaugnrated a a morement which ourht to commaud the attention of all thinking men throughout the State, and, indeed, throughout all the States. At a meeting of the mechauics, held in this city, on Thursday Evening last, it was resolved that the exigences of the times urgently demand that at least one of the three Representatives to be chosen at the coning election should be a person of kuown practical, mechanical attainments, and one who should be thoroughly posted with regard to the mechanical interests and wants of the State and country.

We most cordially endorse the sentiments and importance attached to the purpose of the meeting above referred to. The Resoiutions have been widely circulated by the press of the city, and their substance will be known to all of our readers before this sheet reaches them. The movement should not be confined to San Francisco, but should be made general throughout the State.
We would beg leave to add one amendment to the morement, and that is, in addition to the selection of a euitable member to represent the mechanical interest, another should be selected with reference to his peculiar fitness to correctly and intelligently represent the minng interest. Let the Miners and Mechanies of the State join hands, and demand, of the convention which is to assemble on the 17th of June next, that they shou'd put in nomination, two individuals who shall be suitable percons to represent the two great leading industrial interests of the State. If they fail in do ing that simple act of justice, l. $t$ such stens be taken forthwith as shall make the politicions, ferl that the mechronics and miners of California are a power in the State, Laving rights and interestsat stake, which cannot be overlooked for the sake of mere political gaiu, or the spoils of office.

Cbange of Name.-What ucas the Hesperian comes to us this week in its old form and with its former Editor, but under a new name. The "Hesperian" and "Pacific Munth$l y$," appear to have joined hands, and the subscribers to both of those periodicals will hereafter be supplied with the new -Pacific Moxtury," published in octavo form and under the Editarial Management of J. D. and M D. Strong. The Editorial corps is a strong team, and we doult not will furnish their readers with a Magazine which shall be a fair ex-

Considerable attention has recently beet attracted to the Peavine Mining District, a locality on the western border of Nevada 'Territory, and a short distance to the northward of the Henness Pass Route. A late correspondent of the Bulletin, of this city, gives some facts with regard to this district which we have condensed as follows:-
The name, "Peavine," had its origin from a solitary vine of that name, which one of its early risitors discovered growing near a spring, and not as generally supposed from an abundance of this nutricious berbage grorving in the val. ley. The most of the ledges now being worked were disdiscovered only some three months since. On a few of these ledges shaits have been suak from 30 to 50 feet, bat on most meiely a little "scratching" has lieen dove to hold thens.
COPPER INDICATIONS \&C.

Most of the ledges show croppings of a greenish substance indicatiug the presence of conper intermixed with coarse grains of gold. This kiud of rock generally runs out at a distance of 15 or 20 fieet from the surface and is succeeded by quartz varying in colors and firmuess as well as in the value of the metal it contains. Other ledges, again, commence with white, blue, black, and yellow quartz, resembling wuch the character of ore discovered in and around the Virgiuia City, and in most of which gold is plainly visible to the naked eye, and which, also, unon a proper test, jield richly in silver.
The lodes located in the hill to the right of the town ap. pear in the following order: The Lucky Lill, White Iliamond, Magnolia, Beril Hammer, Green Mountain, Katy Wakeman, (Iffield, Carondelet and Virginia ledges. Leaving these and passing over the hill to the westward you reach the Lone Star, Mountain Sheep, Dix, Black Hawk, Irish American and Mammoth-a 1 well defincl ledges. T'o the left, and a mile or more distant, you discuver the Young America, Star of the West, Kitty Clyde, White Sugar, Summit, Monitor, and Yuba ledges. The last three named have been but lately discovered, and from present appearances bid fair to excel them all. Some of the rock recently taken out is not only rich in gold and selver, but shows masses of copper almost in its pure state. I am confident that a tuu of this rock now outside of the mine will gield from $\$ 1,000$ to $\$ 2,000 \mathrm{~m}$ gold, and I thitk the copper left will yield from 40 to 60 per cent.; and an assay lately made shows silver to the amount of $\$ 30$ to the tun. Other claims have been carefully tested, both in assays and the old fashioned method of pounding up and panning out, and althoagh they do not cqual the claim spoken of alone, yet they show sufficient "indications" to warrant the belief that they prove" rich. The Lone Star and Young America stand foremost in the list; and in fact there is none whare the ledges are fairly struck that do not show goud proepects. But in order to work these mines successfully, it requires not only patient labor and considerable outlay of money, but what is still more requisite, suitable mills and experienced workmen: That mills can be run here at a small cost is evident from the abundance of wood and water near at hand.
A few days travel by way of Jownieville will bring minong capitalists direct to these mines. The greater part of the travel and transportation from Caliomia to the Humboldtriver will pass this way ly the new road now being built and to be pushed to completion during the present summer.
Ax important improvenuent in nara? architecture has been satisfactorily tested this week. The steamer Kate has been tried at the Nore with a duble screw-an arrangement which enables her to steer herself 1 apially and easily without any use of the rudder, and to turn with the gaeatest facility where ordinary steamers find the operation one of much difficulty. Should the rudder be shot away, thé screws, which are not at all exposed to the enemy's shot, would stil gire complete steering power. [London Spectator, March 7th.

Glue for Ready Use.-To any quantity of glue use whiskey, instead of water. Put both together in a bottle, cork it tight setaway for three days, when it will be fit for use without the appilcation of heat. Glue thus prepared will keep for years, and is at all times fit for use except in cold weather, when it should be set in hot water.

Aguro of $\$ 4000$ ．A lividem of $\$ 100$ per foot was patid on Thurratay last． As bigh as \＄1t0 has beed offered fur the J ibe Ihwhend．

Sierra hutce have been in ternavilat 5115 （3）$\$ 720$ ．This Company in clared the turt diwdend un Firday last，of ミsin the ahare．This to a tewly． incurporated Company，athithe ateck be emblucito a few habls．

Thate and suretors whll cirly in the weck at \＄905，kulisergenty decished
 －Slow on thirty diys．
 agon the report from the mise that an enght fout rein of ativer han been foumd．
Burnside opened at $\$ 25$ and closed $a t=0$ ．
Iadjnz－ut and Goldent Erit opened at ：$: 40$ aud clused at $\$ 30$ ．

TRANSACTIONS IN SHARES，FOR THE WEEK．

## NEVADA STOCKS．

（rould de Curry－ 32 shares at $\$ 4,000$ ．
Ophir－30 at $\$ 2550$ ．
Potosi－20 at \＄6no．
Chollar－60 at $450 ; 20$ at 450 s $30 ; 40$ at $450 ; 8$ at 460 ；
20 at $453 \%$.
Daney－98 at $325 ; 56$ at $320 ; 24$ at 31 1ヶ夕 20 at 330 b $30 ; 20$ at $320 ; 26$ at 350 ．

Burning Moscow－ 30 at $110 ; 3$ at 105.
Chas．Caney－ 15 at 90.
Rugers－ 25 at 10.
Clarrie Bell－25 at 1．$\quad\left\{\begin{array}{l}\text { Mt．Davidson－} 26 \text { at } 4 .\end{array}\right.$
Iowa－5 at 120 ；$\overline{5}$ at 115 ； 11 at $118 ; 5$ at 120 ．
Buruside－60 at $27 \mathrm{~s} 20 ; 10$ at $27 ; 30$ at $35 ; 53$ at $26 ; 35$ at 27： 20 at 27.
Sacramento－$\overline{0}$ at $70 ; 5$ at 80 b 30 ．
North Potosi－5 4 at $40 ; 10$ at $41 ; 30$ at 40 ．
Lucern 42 at $6 ; 32$ at 6 ．
Sitrra Nevada－118 at 521； 20 at 221 ．
Adriatic－100 at 6； 40 at． $6 ; 30$ at $5 ; 10$ at 6.
Meredith－20 at $40 ; 24$ at 36 ．
Norton－50 at 20 b 32； 60 at 18 b $30 ; 50$ at $14 \frac{1}{2} ; 20$ at 15； 30 at $151 \%$ ．
Bajazette－ 20 at $46 ; 10$ at $45 ; 20$ at 40 ．
Lady Bryan－35 at 6.
Jenny Lind－5 at 10 ； 5 at $12 ; 5$ at 10 ．
Buckeye－150 at 7,$2 ; 25$ at 8 ．
Hale Noreros $-302 t 905 ;$
Hale \＆Norcross－ 30 at $905 ; 10$ at 950 b $30 ; 10$ at 960 ${ }_{6}^{60 .}$
Rappahannock－25 at $171 / 2$ ．
Sunbeam－100 at 10． $\left\{\begin{array}{l}\text { San Francisco－120 at } 50 . \\ \text { Buckeye，D．G．}-25 \text { at } 15 .\end{array}\right.$
Gov．Nye－3j̄ at 5 ．Mt．Hope－13 at $2 \overline{5} ; 5$ at $2 \overline{5}$ ．
Golden Gate－10 at 2． Hudson，D．G．－ 10 at 10.
Yellow Jacket－1 at $725 ; 31$ at at $650 ; 5$ at 650 ．
Pride of the West－15 at 15 b b $30 ; 5$ at $150 ; 10155 ; 10$

## at 160 on 20 days．

El Dorado－10 at $\$ 87$ 12
Dimalida stocks．
Pond－10 at $371 / 2 ; 10$ at $35 ; 9$ at 65.
Wide West－21 at $\$ 315 ; 3$ at $\$ 316 ; 6$ at $\$ 320 ; 5$ at $\$ 310$ ； 10 at 320 b 30； 5 at 300.
Silver Hill－4 at 53； 12 at 50； 65 at $49 ; 30$ at 48.
Bamboo－10 at 65 b 30．\｛Union，R．D．－70 at 2.
Seymore－10 at 19．\｛Duck Wall Cañon－10 at 26.
Josephine－20 at 18； 20 at $19 \mathrm{~b} 30 ; 10$ at 1916； 10 at 30.
Antelope－ 10 at $300 \mathrm{~b} 30 ; 5$ at $295 \mathrm{~b} 30 ; 5$ at 290 b 30 ； at 285 b 30.

Willow Springs－20 at 12.
Coso－3 at 18.

## humboldt and reese river stocks．

Reese River－50 at $\$ 180 ; 100$ at $\$ 2$.
Sheba－2 at 460．\｛De Soto－15 at 105 b 30.
Barber－50 at 5．\｛ Mt．Bullion－20 at 3 ．
califurnia stocks．
Rhodes Diggings－19 at 35．
Laurel Hill－ 0 at $4 ; 10$ at 8.
Superior，Eldorado Co．－10 at 5.

## mexicay stoces．

Mina Prieta－5 at $\$ 140$.

## VIRGINIA CITY STOCK LIST．

Corrected for the Mining and Eciontife Press，Thursday，Mny 21， 1863.


 800
20

| Colo ．．．．．．．．．．．．．．．．． 20 | ．．． | Bullion（consolidated） | 75 | 90 |
| :---: | :---: | :---: | :---: | :---: |
| Crammertial ．．．．．．．．．．．．． 10 |  | Belcher | 565 | 6．30 |
| Cinsubhateal Civdar Hill．．． |  | Brauch Mmt | 2 |  |
| frurgun．．．．．．．．．．．．．．．．．．． 3 | 5 | Caledutia |  | 45 |
| Empirs．．．．．．．．．．．．．．．．．．．－ | 6 | Cinjurers | 10 |  |
| E）Huradri．．．．．．．．．．．．． 90 | 110 | kurcka． |  | 22 |
| Furwew ．．．．．．．．．．．．．． 100 | 125 | Furcale ：Bacird | $\delta$ |  |
| dirass Vialley ．．．．．．．．．．．．．． 15 | $\because 0$ | Gived Hill，Bhy Lettge | 40 | 85 |
| Hazcel（ifcell．．．．．．．．．．．${ }^{\text {a }}$ | 5 | tionden fint． |  | 5 |
| Harrima，Virgiuat licerpo ．． | 35 |  | 12 | ：0 |
| Hartism，San，Frun．lncur．． | 30 | Hfwkeye．． |  | \％ 1 |
| Irving．．．．．．．．．．．．．．．．．．．． | 10 | Hudsun | 100 | 150 |
| dinurance ．．．．．．．．．．．． 25 |  | Kuld－1－hour | 200 | 230 |
| luw：1y．．．．．．．．．．．．．．．．．．． 115 | 1 120 | 1eou．． | 170 | 27 |
| Irulribes ．．．．．．．．．．．．．．．．．${ }^{5}$ | 6 | Latoriug． |  | 23 |
|  | 7\％1 | lucerue |  |  |
| Kiy：tune．．．．．．．．．．．．．．．． 25 | 30 | Jar＇y Alat． |  | 60 |
| Kınusla ．．．．．．．．．．．．．．． 10 | － | North Americall． |  | 00 |
| Lai Crusse ．．．．．．．．．．．．．． 10 | 02 |  |  |  |
| Lancer ．．．．．．．．．．．．．．． 10 | 12 | Uvernat， |  | 200 |
| Mantu Cristo．．．．．．．．．．．．．． 18 | 25 | Orseutal |  |  |
| Mere－lith．．．．．．．．．．．．．．．．． 40 | 45 | Umegti |  | 400 |
| Mi．गaridsun．．．．．．．．．．．．．．． 6 |  | Princess |  | 95 |
|  | 10 | Sinalor |  | － |
| NoLee | 25 | swrezy |  |  |
| Niltun ．．．．．．．．．．．．．．．．．．．． 60 | 85 | Stuphenso： |  | 18 |
| Mmarch ．．．．．．．．．．．．．．．．．－ | 15 | Utrinh．． | 40 | 60 |
| Ма木1ヶขก．．．．．．．．．．．．．．． 22 | 25 | Yullow Juek |  | 750 |
| Muheg． $11 . .$. ．．．．．．．．．．． 10 | 12 | Yolo |  | \％ 0 |
| Nurton ．．．．．．．．．．．．．．．．．． 20 | 30 |  |  |  |
| O．klanal．．．．．．．．．．．．．．．．．． 12 | 15 | Devil＇s Gat | siric |  |
| Orrntal．．．．．．．．．．．．．．．．． 5 | 6 | Govermor Nyt ．．． |  | 15 |
| Uscuala．．．．．．．．．．．．．．．．．．． 15 | $\ldots$ | Hawley． |  | ¢0 |
| Prule of Wastioe ．．．．．．．．． 30 | 35 | Monturey ．．．．${ }^{\text {a }}$ ． |  |  |
| Peytun．1．．．．．．．．．．．．．．． 40 |  | Pride of thu West |  | 260 |
| Poormau ．．．．．．．．．．．．．．． 300 | 350 | Wiauemucar ．．． |  |  |
| Perocererance ．．．．．．．．．．．． 40 |  | Wide Wust． |  | 20 |
| Rogers | 18 |  |  |  |
| Recorder $\qquad$ 15 <br> Recurder．．．．．．．．．．．．．．．．．．．．．．． 14 | 18 20 | Flowery | rict． |  |
| Sauta Rita．．．．．．．．．．．．．．．． 40 | 45 | Adriatic． | 3 | 4 |
| Situt．t Fe ．．．．．．．．．．．．．． 35 | － | 1udy Bryau | 7 | 8 |
| Sutro ．．．．．．．．．．．．．．．．． 20 | － | Harrisoll ．． | 5 | 6 |
| St．Geurge． | 25 | Uucle sim | 5 | － |
| REMARKS． |  |  |  |  |

The Mining Share Market，for this city was quite dull last rreek，but im proved considerably with the opening of the preseut week．Indeed the week has opened with tonsiderable brisknens．But few stucks have mate－ riblly adranced withiu the past six days，nad fewer still havo rec－derl， while the market has presented less ductuation than for any stantar pe－ riod for many weeks．
In tinh goure five looking rock was struck about a weck since，whech Las had the effect to advance the shares of this Company from $\$ 55$ to $\$ \$ 5$. Badjazelte still coutinues to uttract attention from the Bulls and Bears， and it is a difficuit matter to fix its value in this market．It may，per－ haps，be quoted at about last wotk＇s Ggure．This stock was the theme of considerable comment on Thursilay last，in consequence of that day beng the expiration of the term for the delivery of 200 feet of its stock at $\$ 35$ ，
a figure considerably below the ruling rateg，The stock was delivered， however，and may now be quoted at $\$ 37,2$ to $\$ 40$ ，in light request．
Beach \＆Paxton has been inquired for to－day at $\$ 125$ ，with but little ofr
Sicramento has exhibitel̉ something of a revival，and bas been ouquired for to a cousiderable extent． 100 reet or more hare changed hanis in this market，during the past week，at \＄65（1）\＄72，\％It may sow be quoted at the latter figure，with but little demand．
Belvidere is still in favor at about last week＇s quotations．
Gold kill stocks bave manifested considersble activity，though less than for a rew woeks previous．
Considerable advances have been noticed in Alpha，and Ycllow Jacket， also in Harkere，North America，and Stephenson－Kehoe．The North Amer－ ica is iu brisk demand at $\$ 25$（c）\＄27


## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCD.

|  | Loallity of Sine |  |  |  |  |  | Sam |  |  | Ioonlity of omee | Capital |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rutin N'INT =on I'uu'l C |  |  |  |  |  | S | $\frac{1}{2 x i t i l y}$ |  |  |  |  |  |  |
|  | Emeralad insuricel r . | ${ }^{\text {Biblus }}$ | - 30 |  | cois |  |  |  |  |  |  |  |  |
| (ex |  |  | 306 Sout |  | com | \% |  |  |  |  |  |  |  |
|  | Eminemay | Li. Elibuins |  |  | jow | ${ }_{560}$ | (enmex | Namma |  |  |  |  |  |
|  |  |  | Sos )emm |  | coil | 1000 | cinden | Emile |  | bex |  |  |  |
| Liceme | cone |  |  |  |  |  |  | cism | ter | cinde |  |  |  |
|  | Soe Dis |  |  |  |  |  | Six Winarl. |  |  | - |  |  |  |
| White \& 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Busving |  | airre |  |  |  |  |  |  | , | al mastuy tonst |  |  |  |
|  | Mingin hisititet | ${ }_{\text {T }}^{\text {Tayiar }}$ |  |  | cois | (1,0, | come | cole |  | $\begin{aligned} & \text { To merehant st. } \\ & \text { montgom'ry Bla } \end{aligned}$ |  |  |  |
|  | diat |  | Sex |  |  | 315 | min | Esmeralda Distriet | , mit | $\begin{aligned} & \text { 䫆 } \\ & \text { Bill } \end{aligned}$ |  |  |  |
| Nem |  | - .i. clars | 2 |  | coicis |  |  |  |  |  |  |  |  |
|  |  |  | cosm |  |  |  |  |  |  |  |  |  |  |
| Anture |  |  | $\pm$ |  |  | mo |  |  |  |  |  |  |  |
| kyo |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | H. | Hereme |  |  |  | Simu |  |  | mix Tumer ve |  |  |  |
| indirle |  |  | Herents, |  | ${ }_{\text {coid }}^{120}$ | ,380 |  |  | c.L.w |  |  |  |  |
| Dex |  |  |  |  | coid | :07 |  |  |  |  |  |  |  |
|  | teme |  |  |  | coictio |  |  |  |  |  |  |  |  |
|  |  |  | Alissubismetrcei |  |  |  |  |  |  |  |  |  |  |
|  | E.ater ida |  |  |  | cot |  | Stireme |  |  |  |  |  |  |
| Ementin | Eme | ${ }_{\text {ditee }}^{\text {und }}$ | ,oot |  | 2mom |  |  | cimb | , |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | cois |  |  | dran |  |  |  |  |  |
|  | esersul |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mry |  |  |  |  | ${ }_{\text {I }}^{15,600}$ |  |  | ${ }_{\text {chante }}^{\text {clante }}$ |  |  |  |  |
| ${ }_{6}{ }^{8} \mathrm{~s}$ | ctiren | x. Tan Br |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ${ }_{\text {B }}$ Van Breut | ${ }_{[128}^{128}$ |  |  |  |  |  |  | a |  |  |  |
|  |  | \% mexilimen... | Cor yout ged |  |  |  | vis |  |  |  |  |  |  |
|  |  |  |  | ${ }_{\text {cosem }}^{\substack{1,680 \\ 1,0000000}}$ |  |  |  |  |  |  |  |  |  |
|  |  |  |  | cose | como |  |  |  | Crueg |  |  |  |  |
|  |  |  |  |  |  |  |  | Alua imime |  | Nos |  |  |  |
| ¢ | andiad | Inu |  |  |  |  |  | $\begin{aligned} & \text { and } \\ & \text { and } \\ & \text { ane } \\ & \text { a } \end{aligned}$ |  |  |  |  |  |
|  | atile |  |  |  |  |  | cill |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Esmeralita | $\begin{aligned} & \text { Ospph } \\ & \text { oseph } \\ & \text { Chos Bro } \end{aligned}$ |  | coitut | coick |  |  |  | \%. |  |  |  |  |
| Soluni. |  |  | Eiceme |  |  |  |  |  | . |  |  |  |  |
|  | ralas |  | lent |  |  |  |  |  | Farclay Honley | $\substack{\text { resen bui } \\ \text { monikgen } \\ \hline}$ |  |  |  |
|  |  |  | \%os |  |  | I, 000 |  |  |  |  |  |  |  |
|  |  |  |  |  | $\xrightarrow{100}$ |  |  |  |  | $\begin{aligned} & \text { none } \\ & \text { oner } \\ & \text { nor } \end{aligned}$ |  |  |  |
|  | ralan nestic |  | Cistom |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Yoriuth } \\ & \text { Yevaria } \\ & \text { Salinas } \end{aligned}$ | fior |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n Horin |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | and |  |  |  |  |  |
| En-tern Clone ml \& m cio |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Samitago |  | ${ }^{\text {Nutasis. }}$ |  |  |  |  |  |  | Gi 6 sacramentost 626 sacramento si 6. 6 Encramet. ${ }^{2}$ st |  |  |  |
| diver |  | Home |  |  |  |  |  | Sater |  |  |  |  |  |
|  |  | ${ }_{\text {Holme }}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\operatorname{cotex}_{6}^{6}$ | Sum | chini | His |  |  |  |  |  |  |  |  |  |  |
|  |  | Chamer |  |  |  |  |  |  | , Lam |  |  |  |  |
|  |  | Hoody |  |  |  |  |  | sit | Lav | cose |  |  |  |
| Cromi Itad |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crown L |  |  |  |  |  | 400 |  |  |  |  |  |  |  |
|  |  |  | 8 montig |  | cos |  |  |  |  | $\left\{\begin{array}{l} 48 \text { Clay rliee } \\ 525 \text { molitg miy st } \\ 6: 6 \text { Waslivgoon st } \end{array}\right.$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Humblold Districl |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Stemen |  |  |  |  |  |  |  |  |  |  |  |  |

## MININGANDSCIENTIFIC PRESS

# D E S K S <br> <br> Office Furmiture, <br> <br> Office Furmiture, F ALL KINDS...... FOR S.ILE BY <br> <br> JOHN WIGMORE, <br> <br> JOHN WIGMORE, <br> No. te3 Californah St., San Francisico <br>  

PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 19, Firnt Street, San Frshelinco, urnish Castings and Machinery of all kiude Also: falmma, HaNectoma \& Co.
To Quartz Minens.
Knox's Improved
AMALGAMATING PAN, W:TH ALMER'S PATEズ1' STEAM CHEST,
 conplite anndgrmanion of the preeivas melats of



- ival hatu exchandy HiNscoM \& co.,

Nos. $10 \&$ \& Goldss stats Mrow Wouks,
The phtlic aro foformed that Eetcers Patent have bern



## DEETKEN'S

hemical and Metallurgical Works,
Ou Sau Bruno. Road, Islais Creek,
SAN FBuNClicu.

OLD BEARING SCLPMORETS WORKER AT REAS
 I prociss, Yied of sulphuretctrom 30 wh 50 per celn



## LEWIS COFFEY AND RISDON,

 CEAM BUILER AND SHEET IRONWORKS.

Fae ouly esclusively Euhter Making Estalishment or Pacicc Coust Owned and contucted oy Practiral Cha Work, executed as ordered, and warrauted ab tuality.
d Stand, corner Bush and Market Streets. Opposite Oriental Hotel, Sun Francisco, Cul. EWIS COFFEY,

JAMES PHELAN, (Late J. \& M. Puelav,)
IMPORTER AND JOBBUR,
Wines; Liquors, Etcy Etcy Nog. 616 \& 618 Front street, Betwsen Jackson and Pacific Strects, Eis Frascisco.
stablished 1840.

1 Goods Guaranteed. Orders Solicited teras hiberal.

THEODOR KALLENBERG
Maker of Models FOR INVENTORS.
[ACEINES, LPTHESANTML, Opticn and CLilosoph ical Iustrumente, , stales, Wedyhts, tec. ; No. 4 Sansome stricet, corner Market,

## P <br> P

 San Fraweusco.Volcanic Smelting Furnace.


## New Style of Lady's Buckle.

W. BOHM, NYENTOR is PATENTEE


 The on usention harthe hemencernly examincal at the

 The Pruble is regnectrally firvited to call aud exami The Puble is rugnectrully firited to call aud examinc
Unis Burkle at the Jewelry Cetablishanent of Lhis Burkle at the Jewelry litablishment of
BRAMERMAN \&.E.VY,

 E. Wery Buchle wold will be guarauteed as to its Stength
$\begin{array}{ll}\text { and Durabulity. } & \text { WUH: Batenfec. }\end{array}$ and Durrablity.

## -LEANDER RANSOM, <br> Civil Engineer <br> AND

SURVEYOR,
Having been connected with the publie works surveys of the State of California for 7 years.

## ALSO

## state locating agent.

600,000 ACRES OF STATE SCHOOL LANDS,
At the low price or $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and tho balance
 ner of sioutgonery aud California stivelts.

HAYNES \& LAWTON, iniporters and dealers in
CROCKERY,
GLASS Ware,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS Silver Plated and Britania Ware, ете., ETC., ETc. NO. 516 SANSOME STREET, [corxer of merchant,]

Sax Fraxcazco.

The Occillontal Hotel
Open for the Reception of Guests.




News stiuncl, OABINET FOR HINERALS


Oregon street, hetween Whalington and Davis and Fron
Manufacturers of Five Pror
Manufacturers of Five Proor Doors and All arkets frum the interier inten, Waslinntun Turitory, Vhuccuver's hathuld Bricish Culfumbin, or any phace ons the
and disinatel.

Mr. Sims Appreciates the Past liberat putronage of his fromple, auil trusts that he m

For the Informition of Strangers he would say that he feels confident that his exper:cace $1 /$ his particuliar calling is surl asased by mone ou
this curst, which tits sularior work sent to almost eve this cuist, which liss sulerior works sent to nlmost ere-
ry town in this state, oregun, also Victurin and the Sundry town in this state, (rregun, also Yictur in and the sumd-
wich Islinds, and tw be soen on some of the best buld Wich Islinds, mind to be soen on some of the best build-
ings in tian Pranciseo, fuly attuat. A largo nssor (nemt


## NATHANIEL GRAY, General Furnishing Undertaker, G41 sacramento st., Cor. of Webb,

FULTON FOUNDRY \& IRON WORKS

## HINCIEEY \& CO.,

manveatiturers of
Stean Hngines, Quartz, Flour and Saw Mills; Cast Iron Fronts, for Buildings, Mining Puips, and all kinds of Machinery, Etc., FIRST STREET,

*** All liciuds of rrov and brass Cistnets furnished at short notice. Ryery style of Fisisinge to Irou when
cast. Repairing or hachiucry neatly done. cast. Repairing of Machinery neatly done.
Lattens Making in all its rarious forms. Prices low. D. B. Hinchley. Wy. E. Worin. Wal. A. Field.

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders


## SQUARZA:S PUNCH.

FIRST $\overline{P R E M I U M}$
the sacramento agricilutural etate fair

## FOR 1862.

ALSO; FIRST PREMTUM the San Fraucisco Bay District Agricultural Fair, 1863 Manctactory, Whonesale afd metait,

## No. 4 Leidsdorff street,

Opposite the What Cheer House, San Fraucisco

## TO OWNERS OF WATER-POWER

## Beth's Hydraulic Pressure Wheel،

## THE SIMPLE, COMPACT, STREONG AND

 Fith, ( 3 feet to soo.) atil to aty himb of mathagets . With Suve in Tranaporlative Material and Latbus, fi in
25 to 60 per ceme. of the entire cost ef
Struelure to which it is appited, and p:
tomatly herease ita value.
For full theirmatiou frumin the direntor,
Mlimero' Fundry, trom 10 to $11 \mathrm{~A} . \mathrm{s}_{1}$, or that
Miners' Fouadry, Sunt dinctis ;0.
*2. This Wicel in fully Gitalaxrsel. Jaulitif

## To Mine Owners.

Pinties having a Good silver Mine
P wad wistumb tior
Machucry to work it for an iuterest fin the Mos Fillan well to anply at this olfics. No urs aizel cons (1anty weod alyly.

## 50 lbs IMARINE and

Fire-Proof Paint,


 or Buttous of Suips, it is equal wa cout of st ate, and
quite equal to Coplier, uo worms will ever cillech at, aud cheager ham any other pint.

## DIRECTIONS

For Deeks of Sups, use two purts Mineral laint, ene mart White Leull, imix with Linseed Oil. For bothins onseck, use one part ground sulphur it hot. For sate be ull Shin Chauders and Tralesmen , iu boved


25 POUNDS FIRE-PROOR PAINT.
When ised on Rooff, Buillings, or Fencer, it 18 equal
to covering them with a coat of sumes, betueg ferfectuy Fire 1'toor, and coasting less than any' 'mut.

DIRECTIONS:
Hotse:-Mix thr ce parts Miueral Paint with one par
Whito lead, Clin with Lithsed oil: if a liguter cullor is
Whito lead, hinin with Limssed oil: if a lighter cellor is wanted, mix less puint, more leal.
ROuF : Five pints of Mineral Paint, one part wlyite Leadi max with Linsed onl. Hat in hick man a 14 Rvor as one coat when properly appliedvill last three ye.ts.
S. C. BRADSILNT, Ast., G. T. Fovace, Superintendeni.

WORKS, North Beach; Office, 318 California st., Sma Francisco.

## WRIGHT'S PICKS.

JOHN TVRIGITY, of Sacramento, has establisnca himself in San Francisco fur the manufacture of urery description of 1 ICKS:, of the best material, at reliucud prices. Pice Exes of the best irou furnished in any guan lity, at low rutes Ordors from the country promplly atteuded to. N. B.--Yone genuine uuless stamped with JOEN WRIGHT, bll Market strect,
upposito Batery, Smin Funcisco.

## REMOVAL.

OFFICE OF THE PACIFIC METAL
Havint eulurgud our Works at Northi Buach we are Having eularged our works at iorth Beach, we are
bow crabled to teduce froma 10 to 15 tons of silter or Gold rock per diy.
Gulu and silver ore, aud Sulphuret Assayers', or sil
Versmithe' sweminys reduced or purchased
COlPER OBBS-lighest market rates adraweud 14
318 Californiti street, uour sausuia

## WANTED,

GOLDQUARTZ SUTTABLE BOR
Br frontier A. Deviercy,
13 ap
487 Pine etreot, San F:aucisco

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN,
422 California strcet, corver of Leiusdorr?
Drawings of MuDEs, made for parties applying for ps-
ents at Washiugtou or Londou.

## SPECIAL NOTJCES.

| Orfec of the Table Mountain Copper Co. Ao assessne: $t$ of Twer.ty Are cents per share was this du" levied uph he captal strck of this Cmpmang, nuw immediately, in gori coin of the Cuited staites, to the Secretary, at the chice of the compayy, No. $5 \geq 3$, Montgomery street. <br> s:u Francisco, say 15, ; ${ }^{36} 6$. <br> 3. G. ELMORE, Secretary. <br> In |
| :---: |
|  |  |
|  |  |


 San Francisco, May is, 1863.
Offle of the Terada Copper Mining Co. $314-c h 124,1563$. - At a meting of the Bonrd of Trustcos,
held this day, an asscs
 able twenty (20) cents per sliare with in thirty days, ani
tweuty ( 20 ) cents per share within sixty days froum this dite, io the Sceretary. By ordicr of the rrustee,

Office of the Tennesec Gold nnal Silver Minu.g Compauy, No. T, Montgonery Block.-At a meet-
ing of the Board of Trustees held April 22,1863 , an Assessment o! One Doiln aud Fifty cts per sliare upon the cajital stocls of said Compahy was levied, payable ou or betore Saturday, the 23 d day of May, 1863 .
J. H. ALUOD, Secretary.

Office of the San Francisco Gold and Sllyer Mining Compayy, No. 7 Moutgomery Block-At a
mosting of the Board it Trustess, held April 20 , an As. meating or the Boardar ( $\$ 1$ I) per slare on ure capital sessment of One Dolar (\$I) per share on the capital
stoek of this Compary was levied, payable on or before Thursclay, May 21,1863 J. H. BLOOD, Secret3ry San Erancisco, Apri3 27, 1863.
[pan2I.

Office of the Sam Patch Gold and silrer Mining Compauy, No. T, Montgomery Block-, At a
meetiug of the Board of Trustees beld March 20,1863 , an meetiug of the Board of Trnstees beld March eo, 8863 an
Assesment of Fifte Cente, (50 cts.) per slare on the
capital stuch of said Company was levied, payable on or Assensment of Fifty conts, ( 50 cts .) per sliure on
cepital stuck of said Company was levied, payable on o
before Thursday, April 30,3863 .
J. H. BI.OOD, Secretary.

Schmeltzer Gold and Silver Miming Compauy, - At a meeting nf the Board of Trustees this Company, held ApriliII, Is63, an assessment or 25 cests per share was leried, payable in United sta
coin, to the Secretary, at the offied of the compauy,
500 Jlontgomery street, on or before FRIDSX, coin, to the secretary, at the othec of the compauy,
500 Jontgomery street, on or before FRLOAX, April I7
IS63. ap20.Jn 31. G. ELMORE, Secretary.
J.E. \& H. H. SCHAFER Matulacturers of and Dealers in

## BEDDING and FURNITURE,

Blankets, Comforters, Sheets, Etc., Etc. Nos. $50 \pm$ and 506 Sansome Street, (Mare chas,

This Establishment is now generally known to bo Cheapest Place in the City for goor Bedding

Branch Store. . . . . . Rroad St., Nevada.

## T. C. Sanborn \& Co,

 STOCK BROKERS,No. 630, Montgomery Stikeet.
$\mathrm{O}^{\mathrm{P}}$
coctin a crexy mints siock, cholun minile spock,
calfornil simai natication cos stock, BOUGHT \& SOLD.

## WHEELER'S <br> Amalgamating and Separating Pans.

[^3]PEOPLE'S
Steamship Line: connecting California and New York via micaragta.
750 Miles Shos ter than any other Route:
The Fast and Favorite nouble Engiue Steamship,
MOSES TAYLOR,
J. H. Blethen..
... Commander Will be dispateled for
SAN JUAN DEL SUR,
From Mission street Wharf.
WEDNESDAT, ․ . - June 10, 1863 Punctually at $90^{\prime}$ elock, A. 3., ou Connectiug at GREYTOWN wath the Splendid Ster mabir
AMERICA

## 2500 Tons.

Reduced rates of Passage and quick trips
by the re-opening of the Xicaragua Ronte.
Ty the reopeneming of the Ticiaragua Route.
These Steumers are uncurpassed for speed, cleauliness ad safety, ana erery ellort will be made to insure tho For further informa

aso No. 407 Tashingtion Street, opp. Post Office.
International Hotel,
Jackson Street,

$$
\begin{aligned}
& \text { N Street, ------ San Fr } \\
& \text { [A few doors alove Montgomory.] }
\end{aligned}
$$

FIRE-PROOF BRICK BUILDING.
Most convenient to the
eamer's Landing, Business sts. \& Places of Anusement
OPEN ALL NIGHT
City Railroad Cars Pass the Door.

## REDUCTION IN PRICES.

Fine Bathing Rooms attached to the Barber Sbop. Warm and Cold shower Bathas Free to Guests.
Thorocghly Revorated axd newiy fir nished this spriog. Frery Room opeas to the Light and dir. Each rooni is furnished with a first quality
Patent spring Bed and Hair maltresses. The International offers to guests the greatest uumber aut

Best Furnisued Famly Rooms;
and sets $A 5$ good $A$ tamie ns any Honse in the city I am determined that the Intrissatrowsh shall be the
most comfortable, best regulated, and in all respects sumost comfortable, best regulated, and in all respects su
perior to any like estall isliment in the state, and slail
 enjored be
Priuciples.

> F. E. WEYGANT, Proprietor.
'Tremont House, 418 and 420 .... Jackson Street
$T$ IRS FANE, FIRE-PROOF BCILDING OFFERS MANY
T advantages to the traveler for con reanence II is
onls balf a block from the Post Onice and Custom House aud about the same distance from the priucipal places of Ampenicut.
The City Railroad Cars pass the Door. The House is conducted on Temperance Priaciples, Which secures to olr guests quiet. The prices for board and Rooms are very moderate-
bs the day, meal or weck. We soncict $A$ CALL FRos ALL. F. E. WEYGANT, Proprietor.
 carly on the two houses in connection, so that Travelers
 or International Hotel Conch and be taken to cither House
with their baggage, FREE. F. F. WE YGANT.

Percy Douglas,
IMPORTER OF
CROCKERY
FRENCH CHINA,

## Glass Ware, Etc., Etc.

No. 421, MONTGOMERY STREET. SAN FRANCISCO.

## A.C. MORSE, Mining and Rcal Estate Agent,

## Orfoce-S. Th. corner Pine and Silver sts., Aurora.

HAVING DADEE ARRANGEMENTS
 raldu Listract

## MYERS\&DAGGETT'S

Mining and Stock Exchange,
Mining Stocks of All Kinds Bought \& Sold.
Eustupse conuected will Mining Stncks of every deserip
tiou promptly and confueutially allended to.

## Pacific Mail Steamship Company.

> NOTICE.

## A Rrangements have been made

Gold, Silver and Copper Ores
can be firwardeli under through Bills of Iading from
Sau Franciseo to Eugland, at reasonable rates. For fur ther particulars apply to
A. B. FORBES, Agent,

28:if Corner Sacramento aud Leidsdorf strects.

## P. M. STEAMSHIP COMPANY.

> NOTICE.

Until further notice, the steamers of
Prufic Mail seemsuip fompuly will hereatier be
3d, 13th and 23d of each month.
Then ayy of the above dint sfail on sunday, the steam
A. B. FOREES,

Agent.

## W m, P, TAFFEE, <br> mporter axd jobber of

Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francisco.

## A. ROMAN \& Co.,

 Book Eistablishment, 917 and t19 Hontsomery street, sex maxicsocoOrders respectfully solicited and promptly attender to
A Treatise on Metallurry Conprising Minans eral and Particular Metallurgical Operations, Etc Etc. By Fredorick Overman.
A Manual of Metallurgy, or A Practical Treatise on the
Chemistry of Metals. Chemistry of Metals.
oranda for the Use of the Mine or Facts and Mem-
By James Phillips and John Darlington.
Manual of Setallurgy, more particularly of the precious metals; but includ ing such others as are employed Piggot on the Chemistry
Piggot on the Chemistry and MiLing of Copper.
Practical Mineral Asan ying and Miving Gold Miving and Assaying: by Pliting. Overman. Miners' Companion and Guide, compiled by Silversmtth. Assayers' Guide; or Practical directions to Assaycrs, MiPractical Assaying by
Practical Assaying, by Michell.
Ure's Dictionary of Arts, Mlanutactures and Mines,
Weisbacle's Mechanics of Machinery and Weisback's Mechanics of Machinery and Engineering Nevillo's Hydraulic Formula
Freseuius' Chemical Analysis.
Together with manyother w
and similar limes
Nss Books imported to order on short notice. A. ROMAN \& Co.

417 \& 419 Mrontromery Street.

New Patent Agency.

The Patent Agenoy Business,
And would intite Inventors nad Discoverers on the
cifie coast, who wish Dispatch as well as Economy to cifie coast, who wish Dispatch as well as Liconomy to call
ulpon us. We lrave an Fxperienced Agent at Washing upon as. We lave an fixperienced Agent at Washing
ton, which, together with our ows experieuce of several $y$ cars, renders the

Mining and Scientific Press Agency
The most desirable place to make application for Letter Patent on the Pacific coast. Apply at migton streets, (directly opposite the Post (ifice.) Fraucisco.

FOREIGN PA'TENTS OBTAINED
By application at this ofllee, Room 27, Federal Building EMER \& SMITH, Solicitors.

NOTICE TO INVENTORS.
nuentors wighing to file Caweats should apply at th Onlice, Room No. 27 , Federal Building. Terms moly
ETYER \& SMITH,
ate.

PATENT RIGHTS.
Patent Rights Bovght and Sold,
the oflee of the "Mining and Scientific Press" Agenc
EWER \& SMITH.

## JMPOR'ANT TO INTFNTORS.

Inventors who obtain their Patents through this offir the colve thes of lhyentions illustrated and doseribed furnishing the engravings. We are also prepared to fo nish engravings at reasonable rates. Those whin do u
cire to go to the expense of having engravings prepari care to go to the expense of having engravings prepari
can have their iuventions fally noticed aud described can have their inveltions fully noticed and described
our columns, free of charge. The free use of our a pubns to aid them in introducing be foubul a most impor veutors.

## P. M. S. CO.

PACIFIC MAIL STEAMSHIP COMPANY road with the steamers of the Atlautic and Yacl Stenmship Company at Aspinwall.

FOR PANAMA.
The following Steamships will be dispatched in th month of 3lay, 1863.

May 13th, - - . - - Steamer Orimat
May 23d, - - - Stcamer Golden Ag

Till lenve Folsom Strcet Wharf, with Passengers 0
Troasure, for f'anama
AT 9 O'ClOCK, A. M., PUNCTUATLY,
And connect, via Panama Railroad, at Aspinwall, $\pi$ steamships for New York. For Freight or passage, apply to

## A. B. FORBES, Agent.

je4 Cornor of Sacramento and Leitestorti sts

## Miners' Foundry -asp- <br> MACHINE WORK: <br> Firgt St., between Howayd \& Folsom

 SAN FRANCISCO.FVERY DESCRIPTION OF IRON AND BRASS BAA in the state of California, wul be furnished with patch at the Biners' Foundry and Machine Forhs, Steam Eugines add Boilers, Flower, Saw and Qu mill machiuery, Mining Pumps, Amalgamators, Re
Etc.,
Etc.

Particular attention will be given to the manufac of Machinery in Sections, designed for places of dif access, Tarious mudels of Quartz Crusbers, Amalg
ters and Water Wheels-some in operation and ou $\underset{*_{*}{ }^{*}}{\substack{\text { bjlion. }}}$ Parlies desiring to test their ores practically small quantitios will be afforded ample facilities, fri

All parties desiring accurate and highty finished d ings and superior rachinery, at most reasonatie
are cordially invited to call before contracting elsent

HOWLAND, AFGEL \& KIN
San Francisco, February $23,1863$.


## SPECIAL NOTICE.

We wish it distinctly understond that all the interest hich Julius Silveramith ever bad in the Minina and Scienfic Prfss, ceased in Nuvember of 1862. Ewer \& Simith e now the publishers and proprietors.

## POST-OFFICE COMPLAINTS.

We hear frequent complaints from subscribers in various 1arters, with regard to the non reception of papers, and ave found it impossible, in several places to extend our recrlation, for the only reason that the "Press" can not be ptained regularly from the Post-Office. We know not here the fault is. The paper is regularly malled at the San rancisco Office, done up in strong wrappers, and carefully rected. Subscribers who fail toreceive their papers regufly should first learn from their local Office, whether, when e papers do arrive, they come in good order, or whether e wrappers have been removed, etc., and communicate the facts to us. We will then endeavor to learn the cause the irregularity, and so far as possible rectify the same.

Treasure Supprent.-'The shipment of Treasure by the t. Louis of the 3d inst. was as follows:-

## To England. <br> To Panama

$.8766,21443$ 184,484 21
Previously this year.
5,000 00
Total since January 1, 1863.
Corresponding period of 1862
20,51,698 64

Corresponding period of 1862.
$\$ 21,406,83779$
Excess this jear..
$14,596,066 \quad 05$

The large and coustantly inceasing ein e shipments of the last and several provious years, is a bst important and note worthy fact. This excess must be t down exclusively to the credit of Washoe, and will, in probability, reach by the end of the year nearly or quite - excess of $\$ 15,000,000$ over the shipments of 1862 . The oduce of California, in all probability, has failen off the esent season, in consequence of the immense draft upon ar population by the mines of the Eastern Slope, and by eworking and prospecting of the newly developed Coper mines in our own territory, the produce of which will ake no show in our treasure shipments, but go exclusively swell the total of our general exports. We may look for a important increase in that direction, when we come to ose up the product of 1863 .

To Copper Miners.-We would call the especial attenon of those engaged in raising copper ore to the adversement, in another column, of the "Pacific Mineral Comany." This is a new agency recently established in this ty, for the purchase of copper ores. The Company's Office at Room No. 1, Odd Fellows' Hall, Montgomery St.

Tre Creat Chess Player Braten,-Paul Morphy has gain been beaten by Mons. de Riviere in a friendly match t chess-the latter winnig three o..t of five games.

Another New Amalgamator.
Thespirit of invention is still active among our mechanics, and mining improvements come in for their full share of attention. During the past week not less than four appar- ${ }^{\dagger}$ ently important inventions, in this direction, have come un-
der our notice, as Patent Solicitors. Of course we can say nothing about them at present. At some future time the attention of thepublic wlll be called to their importance.
Two weeks since we made allusion to a new Amalgamator recently invented by Mr. Howland, of the Miners' Foundry in this cify. This machine consists of a hollow, stationary, iron drum, with a fan-wheel, having each arm or fan perforated with numerous holes, revolving within the drum at about 350 recolutions a minute. The pulp, or ore after being first quite finely pulverised, is put into the machine through an opening at the top of the drum, and is then beaten and battered about, and forced through the little holes in the pan, until it is further reduced to au impalpable powder, and thoroughly amalgamated the while. The "process" employed is a combination of the Frieberg, Patio and several others, and is in short and in fact an improve ment in both the manner and speed of the Frieberg barrel process. Quite a number of practical silver ore workers have examined the machine, seen its workings-at the Foun-dry-and all, we believe, express faith in its success. A small machine may be seen in operation at the above mentioned Foundry, where they are also constructing one of large dimensions, suitable for the heaviest milling operations.

## More Machinery for Mexico.

The Sunny South is now taking on board a set of machinery for the El Pecacho (The Peak) Gold and Silver Mining Company, located in the San Antonio Mining District, Lower California, and about 20 miles back from Ventana Bay. The proprietors of this mine are all citizens of Nevada, County, where they have filed their papers of incorporation. E. H. Gaylord, of Nevada, is Secretary of the Company, and W. W. Cozzens, President. Charley Barker, one of the pioneers of that County, and an estimab'e gentleman, withall, is the general Agent of the Company. The machinery has been constructed in this city, under his direction ; Palmer, Hanscom \& Co., of the Golden State Foundry, being the Contractors. The wood work of the Battery, which, for the present, is but a small one has been constructed at the shop of Mr. E.O. Hunt, on Jessie St., and is a very substantial piece of work. The locality of the Company's Mine is one of the richest in Lower California, and we shall be most happy to chronicle their complete success.

Copper Concentrating Macuinerx.-A splendid, new 40-horse power Engine, from Donahue's Foundry, will be shipped, to-day or to-morrow, designed to drive the Concentrating Works now in process of erection on the Keystone Copper Mine-the wéstern extension of the Union. A large number of nechanics are now engaged in getting up the machinery at the mine.
We notice a statement in a paper published in this city,
ed a machine for concentrating the ores of copper, which we understaud, is operated upon the principle of the commou gold sluice. Such machinery will be found impractica ble when applied to copper. The specific gravity of copper is so much less than that of gold, that a principle which will work most advantageously in the latter metal, will be found entirely useless when applied to the former. The business of concentrating copper ores, though simple in its process, is one of the most difficult of the arts of mining to carry into actual practice, and requires infinitely more skill and attention than the usual processes for separating gold from its sands.

## A New Work-Important to all Mining Companies.

Wm. A. Andrews \& Co., a new firm in New York, who propose to open a Pacific Mining Agency in that city, are preparing a work to be issued about the last of July, embracing a synoptical statement of all Mining Oo's in this State and the adjoining Territories. Tt will be published in pamphlet form, and 50,000 copies distributed, gratis, in the Eastera States, with the intention of bringing Pacific Mining Stocks more particularly to notice in the East, for investment and information of the mass of the people, outside of the leading capitalists of New York and Eastern cities. Such enmpanies as are promineut befere the public, and those whose prospects are deemed worthy, will be embraced in the 1st Volume. A 2 od Volume will be issued to include all new companies formed subsequent to the compilation of the Ist. An opportunity will be offered to advertisers, for a few outside pages in the work. Mr, Legir Harnett is Advertising Agent; and Mr. J. A. Woodson, San Francisco Corresponding Agent, of whom further information can be had.
All Compauies upon whom the Ageuts have not called, will please address us as above, and answer, as full as may be, the following questions :-

1. Name of Company.
2. When discovered.
3. Where located.
4. When incorporated, and where.
5. Extent of Clain.
6. Capital Stock.
7. No. of Shares.
8. Assay per ton : Gold, Silver, and Copper.
9. President and Secretary, Board of Trust's.
10. Location of Office.

I1. Such additional information as may not bo embraced in answers to the foregoing interrogatories.
Note.-Specimens of Ore requested, labeled, for reference a Cabinet of New York Office.
W. A. ANDREWS \& Co.,

Pacific Mining Stock Agents, New York.
To Copper Ore Sellers.-Martin \& Co, at their Office, 224 Montgomery St., are prepared to contract for the purchase of copper ores, assaying from eight per cent, and upward to the ton. They will make advances, etc., when desired. See their Advertisement.

Important Silver Discoveries are rerorted to have recently been made on the West bank of Lake Bigler. A tuwn site has been laid off, mill priviledges taken up, etc.

## OUR MECHANICAI INDUSTRY.

San Francisco is destined to become the Workshop, as well as the Commercial Centre of the Pacific Coast. In adlition to the seven or eight Foundries now in operation in this city, all of which are conducted by wealthy capitalists and experienced mechanics, we also find, scattered here and there, numerous Machine Shops of less pretentions dimensions, but where employees and managera are equally as well skilled, as any in the city; and many of whom, no doubt, in the future grow th of our metropolis, are destined to enlarge their field of operations until, by gradual advanses, they reach the point of first class establishments. Among the several establishments of this class which have already found a place in our note book, for special notice, is that of

> E. T. steen's machine shop,

No. 33, Fremont Street. Mr. S. is at the present time engaged in the manufacture and sale of several new and useful articles of machinery, which are fast finding favor among those engaged in general mechauical operations.

One of the most useful of these articles is "Reynolds' Patent Cut-off and Governor for Steam Engines." Among all the vaxious contrivances for reserving power in the application of steam, by regulating the quantity used to the exact necessity of the moment, that above named appears to be the most perfect, prompt and reliable. To saw mills, printing presses and, indeel, all machinery where the work to be accomplished is very irregular in its requirement of power, one of these machines will effect a saving of from 20 to 60 per cent. of fuel. A large number of these machines are now in use in California and Nevada Territory.

Mr. Steen has himself invented a machine of this description, which he also manufactures and has for sale. His modesty does not allow him to say much of his own invention, but it will speak for itself and may be seen at the Goldea State Foundry and at the Stone Breaker, at the foot of Market St.

Another very useful economiser of fuel and power in the use of steam is "Clark's Steam and Fire Regulator, which regulates the draft or blast of the furnace by the preasure of steam in the boiler. This is quite a novel as well as useful invention, as will be readily seen on examination of the machine in use, or by a little reflection upon what such a ma chine properly constructed, might accomplish.

Mr. Steen also manufactures "Ingersol's Patent Drill Braces." If any person is desirous to learn the value of this recent invention let him go through the Machine Shops on First St., or merely notice the work going on in the street aud on the sidewalk in frout of most of those establishments. Notice a workman yonder, with one of the old fashioned racket-drills, with the slow clatching motion confined to one direction, and every second motion entirely lost to gain leverage. Now go on a little further and see that man with one of Ing ersol's Patent Drills. The motion of the handle is not confin ed to any particular direction, and every movement, in whatever direction it is made, turos the drill and eat's into the irou. To us, the use of this new instrument appears equal to a saving of from one quarter to one half in time-an important point in an ecomomical riew, at California prices of labor.

Mr. Steen has also introduced into this State, an invention of especial importance to persons using steam in most localities here. There are fery places in California where pure water can be obtained for making steam. The numerous mineral substances contained in the waters of this State, cause much annoyance by their tendency to produce scale in boilers. "Blowiag off" at frequent intervals, in many cases fails to keep the boilers in good condition. Mr. Steen is selling on "Anti Incrustation Powder," which is said to be a sure remedy against this annoyance. This powder has been in use at the East for eight years, and is being very generally introduced there, and working its way into use iu this State. Reference, as to its utility, is made to the Sugar Refinery in this city, and to L. A. Booth \& Co. at Virginia City, also to others.
We have made this extended notice not so much for a puff for Mr. Steen, as to call the attention of our machinists and mill men to the valuable improvements to which reference has been made. Mr. S. properly appreciates the adpantages of advertising, and displays excellent judgment in

- ectivg his medium. Our rambles among the workshops
of the city, however, will not be confined exclusively to those who may, for the time being, see fit, or think it for their interest to extend patronage to us. All alike will be visited and noticed in turn; and while we would not importune any one for their patronage, re shall ever be happy to receive and acknowledge farors from all. We hope, as time progresses, to be able to make the Press more and more useful to our mechanical as well as mining interest.


## NOTES OF A TRIP TO SLATE RANGE VIA. LOS ANGELES AND EL-PASO. NO. 2.

Thursday, April 9th. Left Mayhew'sabout 10 A. M. and traveled over a portion of the immense plain lying between Los Angeles and the Ocean.

The land is not all level, though it looks so at a distance. We found some ralleys from fifty to one hundred feet in depth, gradually descending and rising, but no water, no feed for the immense number of horses and cattle, wandering over it. In the bottom of one valley we found a dry river bed which had been cut out by the great rains of '61 and ' 62 , about fifteen feet in depth, the sides of which were steeper than an ordinary cottage roof. Here we thought it impossible for teams to descend, bat our leader, Captain Colby, drove down the first fire yoke, then orderel a halt, locked both hind wheels, and the wheel cattle went over without injury to the wagon, but a piece of machinery which protruded over the top' of the right wagon box, struck into the back of the near ox and gouged him fearfully. Poor fellow! We only made about six miles this day and at 3 P. 3. camped for the night. I found the weather very different on these plains from what it was in Los Angeles. I had thrown aside my under clothing and expected to find it growing warmer, rather than colder as ladvanced. It was a sad mistake, and I suffered from cold nearly all the time. The nights were very cold and I crept into the covered wag. on and made up my bed on the sacks of corn and barley bound to feed the mules in Slate Range.
Apr, 10. Started at $8 \mathrm{~A} . \mathrm{M}$. and passed through a very extensive ranch, called Cowangos, a bearififul ralley, but no feed to be seen, and was told that a little could be found in the valleys at the foot of the mountains 8 to 12 miles distant; but all agreed that there would be terrible suffering this season among the stock in this county.
About this time we came in sight of the San Fernando Mission buildings. They consist of three great adobe blocks, one for a church and the others for dwellings.
This must have been a very extensive establishment at one time. Now it seems deserted and is all going to ruins. Near the buildings, are two very large orehards, enclosed by adobe walls about 8 feet high, and 8 miles in circumference, in many places broken down by the rains and cattle.
I learn that the mission is owned and occapied by Andreas Pico (brother of Ex. Gov. Pico at Los Angeles,) his son and son in-law and their families.
I heard from one of our teamsters that in Sept. one could get a great variety of fruit there, but I could see only the olive tree, and the immense cactus which lined the walls, and also grew in great patches in various parts or gardens. This cactus, little specimens of which are trained so carefully in our city gardens and hot houses, here grows fourteen feet high, the base being nearly a foot through, and those immense, flat, green heads shoot out in all directions, wedged so closely that only the smallest animals can move through them. The ripe fruit upon this plant is highly prized by the natives, aud is brought wato Los Angeles and sold in large quantities.

Camped near by a tile-roofed house near to the entrance to the S'an Ferando Coñon.

Apr. 11. Started at 9 A. sr. and soon entered the Cañon, which resembled a great valley at first, but soon began to contract its limits and after an hour or or so, we began to ascend quite moderately, and about noon came to the summit, and a steeper, sharper pitch for teams to pass I never saw. For about 200 feet the ascent is as great as can possibly be overcome by wheels. Here the teams were doubled, making twelve yoke on each wagon, and every one of them strained every muscle to the utmost, as well as the drivers, who poured out yells and curses and swung and cracked their great Pike County whips, with 11 the rim in their constitutions. After a few moments of
terrible excitement the wagon was safely landed in a deep cut of 50 feet on the summit. This work has been done by Lieut. Beal, who has the contract to inprove this road and put up toll gates. He has already done a good denl upon it and will be able to continue doing so for years. The descent of the summit is not so laborious but more perilous as there is great danger of the wagon sliding down over the road if not the cattle. With both wheels locked the wagon slides down as rapidly as the oxen can be kept out of the way, the wheelers holding back their very best and frequently getting their ears between the yoke and their horns and cutting them dreadfully, so that the blood runs down their necks and drops to the ground. At 1p. M. We camped at the Fountain House, a lovely valley where a large stream of pure water gashes out of the hill and fresh grass grows all around for the cattle. We here found ourselves only 31 miles from Los Angeles, after traveling four days. This must appear to any person as slow progress, but teamsters are obliged to give their cattle every opportunity to gain strength in the first part of the trip in order to get over the latter portion, which becomes more dessolate and harren ss they proceed.
12 re. We made sixteen miles this day and camped in San Francisco Canon-as we passed along the road, wo found the California hare or jackass rabbit very plenty, as many as ten to fifteen in sight nearly all the time within gun shot, aud flocks of quails starting up in every direction. The only vegetation thus far is a dry tea bush, and the greasewood which grows in scattering bunches 10 to 30 feet apart oll over the country, and occasionally the tree cac tas which grows about 10 feet high and is armed with shar pointed bayonet leaves all over the trunk and limbs and then forms in bunches as large as a mau's head, with the points standing out in every direction.
We have met Mr. H. F. W. Hoffman, clerk of J. P. H Wentworth, Indian Agent, on his retarn from Owen's River Reservation, with some women, fleeing, as we understand from the Indian troubles in that quarter.
13тe. Renfained all day at this camp.
14re. Started at 8 A . M. and about noon passed Maj. Gordon's Hotel, a commodious adobe house, formerly a sta tion on the Overland Stage Route. Stopped but a few mo, ments and passed on a couple $o^{\prime \prime}$ miles to camp. On our way up the Canon we were shown the narrow gulch wherea man and his famuly were caught, in the month of August last, by a water spout which overwhelmed the entire party drowned one woman and three oxen and completely wrecked every thing. The bones of the cattie were there as a lasting memorial of the sad wreck.
This Canon is about 25 miles in length, very gradually ascending nearly all the way, and the creek which runs through it crosses the road 92 times between Maj. Gor. don's and the mouth of the Canon, where it sinks, and come: up again about three miles out and then runs into the Sapta Clara.

We here met deer on the steep mountain sides and one of our party tried to bring one down with his rifle, but dic not succeed. A shot gun is a most desirable weapon or this trip, as with it, there is no occasion to want for fresh ganse.

15тв. Lelt camp near Gordos's, passed out of the Can on and in three hours reached Elizabeth Lake at 11 A .3 Here is good feed and plenty of water, so we camped arie stayed over night. At this point there is always a stif breeze blowing and generally very cold at all seasons. Wi were obliged to tie on our hats, and secure blankets arount us to keep any way comfortable, as the wind would blow on fire nearly out and when we piled on the wood which $F$. had packed from the Canon, it would blow the flame flat on the ground for 10 or fifteen feet. A most uncomfortabl place.

16 тн. Left Elizabeth Lake at 7 o'clock, passed ove quite a hill and came upon the great Mohave Dessert. Thi seems to be endless in extent, like a mighty ocean, lying mo tionless beyond the reach of vision, with a bright mountain rising occasionally from the plain, like islands. As I pass ed the summit, met a traveler on horseback, who told me h had seen a fresh grizly track in the road and I had bette keep a sharp look ont. I did so but had not the pleasure meeting his honer, and as I was not armed, did not con plain of the slight.
We passed on this desert, the cold wind and rain frol

## MINING AND SCIENTIFIC PRESS.

he mountains striking us on our backs for three hours, arved at Willow Springs about 2 p. y., stayed a couple of ours to rest and water the cattle, and at midnight camped Oak Creek. This is a beautiful stream of pure water ambling down the gulch, forming a good mill site every few ds, and plenty of oaks and pines on the hill sides and illows in the bottom. Ilere is good feed and plenty of it ? we remained till Sunday the 19 th, 2 p. M., when we toped out our wagon with good sweet hay at $\$ 40$ per ton, for te nse of the cattle from C'ane Springs, Ll Paso District, Slate Range, a distance of 60 miles and back. While Oak Creek parties came in from Owens River and reportthat all the Slate Rangers had left and gone in to Visa2, from fear of Indians, and also the Mivers from the Fil 480 District ; but we concluded to go through and take o chances. Druve on three hours and camped at the aink the Lechapa.
Apr. 20. Drove from 9 A. M. to 11 p. M., rested one hour Desert Springa, pushed on to Cane Springs, 33 miles om Oak Creek.
While passing over the Desert we frequently saw at a stance small heards of antelope, and the hare were as eaty as ever, but few quails.
At Desert Springs wo found the only house deserted, as - owner was too much out of health to remain while ose beyond him were hastening into the settlement.
21st. Started at 5 P. M. and arrived at Mesquit Springs 11. o'clock. This is the central location for the El Paso ines, which are now attracting so much attention. We und remaining here four or five hardy miners who had no ar about them, and who laughed at the idea of running ay from the Indians. They had all given Slate Rauge a fal and after a month or more of prospecting here had me to the conclusion, that this District had greatly the adintege over Slate Range in every respect. The motntains of full of metals, water is plenty, fuel within twenty-five iles and perhaps within fifteen, and supplies are obtained om Los $\Delta$ ngeles at about one half the time and labor and pout one half the cost.
22. The teams remaining here till toward night we ramed over the hlils, examining some of the rich leads, and peimens of others aud came to the conclusion that we buld take off our freight, stop here and prospect for the esent. So here we are settled and will report the condi-
on of things as soon as we get acquainted.
O. W. T.

A Grand Union Promenade Concert will be given the Temperance Societies of San Francisco, in aid of a. H. T. Sulfer, on Thursday Evening, June 11, 1863, a latt's Fall. Ticket, (admitting Gentleman and Lady,) ne Dollar.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable fineral deposits, other than gold, in almost every section of he State, which bave of late been made, it is but reasonao to suppose that prospecting even in California, has but st commenced. The simplest and most universal of all otaliferous deposits is gold. It rarely occurs in any other rm than that of "free gold" which is readily discernable to le naked eye. An examination of any rock or earth for oid is an extremely simple process. If its presence is susfected in alluvium, the simple washing of that alluvium in a arr is an invariable test. If in rock of any description; hal rock pounded fine in a mortar and washed, in the same hanner as alluvium, will usually expose its gold to the naed eye, if there is any there in paying quantity. The only xceptions, are where the gold is contained in iron pyrites, ropper pyrites containing also iron. In either of the wo latter cases the presence of gold may be readily ascer-
ained by placing the pyrites in any suitable vessel and leeping the contents at a moderate heat for from four to six ours, with frequent stirrings, by which means the sulphur fill be evaporated, and the copper, if any is present, changd to a dull red color, and the gold retaining its natural apearance, on subjecting the whole to the usual panning rocess, may be readily seen by the naked eye.
Not so with othermetals. Silver, copper, zinc, nickel,
and many others appear in sucli a great variety of metallifrous forms as generally to dufy all but the most practical and scientific eye. No description of these ores can be written which will afford any rery important nid to the jaexperienced in makiog explurations. After reading descriptious, however, and currefully examining the specimens ilescribed, the explorer may go out and search with some degree of coufidence and intelligence. A study of the characteristics of the sulphuret ores alone, wouk lead an explorer to pass over, entirely unnoticed, the moliest varieties of the ores known as Chlorides or Hurn Silver, which, from the facility with which they may be worked, and their usual richness, are generally considered the most valuable of silver ores. There is much reasou to believe that this variety of silver ore will be extensively found in all the volcanic regions of this State. So with many other ores.
Considering the great difficulty, in the present lack of cabinet collections, and other means of instruction, to acquire a practical miverallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resources, we herehy make the offer to miners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefu'ly examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be presented to us.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. Tne ordinary rocke with which the miner meets in his travels and Iabor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place," and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issue a saries of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notica of the California prospector. These articles will be published under the bead of "The Miner's Laboratory," and will be found of great value to the mining public. [Mining and Scientific Press, April 20.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of \& year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a rolume of the Press, cannot be bought from the shelves of auy bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, sou cau find no paper that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars; or two dollars for six months, and become patrons of the only mining paper printed on the $\mathbf{P a}$ cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months ; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discontue the paper after being a constant reador of it for even that short period.

## 


C. W. M. SMITH and W. B. EWER,
-Proprietors


## To Printers.

An Interses in one of the most fourakiug and best paying sicwata per omees in the momntaine is affered for sale on easy forms. A rare op portunity is heroby preseuted to any priuter deriroua of e:tabliabing biniself in a good business in one of the bealthiust, most thriving aud delgghtful mountain towns in tho stute. For further information enquire at this office.

## mining and scientific press.

THE ONLY MINING, MECHANICL AND SCIENTIEIO PAPER ON THIS CONTINENT.

## THIRD GEAR: VOLCAE YI.-NETV SERIES।

A new rolume of this extensively circulated pajer commenced Sept. 11,
1862. It is intended that every uumber shall be replete with information 1562. It is intended that every uumber shall be replete with infermation with several origiual engraviugs, of new inventious, etc., prepared explessly
for its columas. for its columans.
This paper is devoted to the nbove purposes, together with the interesto of Science, Arts, Agriculture and Commerce, and any genernl information
that may be of interest to the reader: and it is the intention of the proprietor to spare no pains or expense in making it equal in interest and raluable informution to any paper yet published.

The Mining Interest!
Winl find it of great ralue, as it will contain all the news nppertaining to Mining, the prices and sales of bining stocks, new inventions of Machinery adap ed to tan
to the Miner.

## The Inventor !

Will and it an excellent medum for the purpose of bringing his invention
into uotice, of ascertaining the progress of 1 pention in this and other into cotice, of ascertaining the progress of 1 mrention in this and otber
countries, and also of receiring any information tint may be necessary in obtaining bis pateat, the proprietor having had great experjence as a Patent Agent, together with facilitios at Washington that enable him to ob ain Patevts with dlippatcls.

The Mechanic and Manufacturer !
Will be greatly bencfitted by its perusal, as cach number will contaun sera eral original engravings of new machines aud inventions, together rith y
large amount of reading matter appertainiug thereto. We are coustantlo large amount of reading matter apper ainug thereto. We are constantle
receiring the best scicntific journals from all quarters, from which wr shall continue to extract whatever may be of benefit or interost to oureaders.

To Chemists, Architects, Millurights and Farmers ! This journal will be invaluable. All new discoverics in Chemistry will be
given, and a large amount of information of great service to Arelntects apd
Millwrights will bo found io our columus. The Farmors aud Planters will not be neglected, engravings will be giron of agricultural impleaueuts, abd the farming intercst generally will be amply discussed. Terms.
To mall subscribers :-Four Dollars per annum, Club Ratea.
Five Copies for Six Months, $\$ 8$.
Ten Copies for Six Southe, $\$ 16$.
Tea Copies Cor Six Mouthr, \$16,
Ten Coplies for Twelvo Months, $\$ 30$.
Fifteen Copies for Twelve Montlis,
Twenty Copies for Twelve Montlis, $\$ 56$.
For all clubs of Twenty and over, the yearly subscription is only $\$ 280$ Specimen copies will be sent gratis to any part of the country.

## EWER \& SMHTH, Publishers,

Room 27, (formerly) U. S. Court Building, Corner of Washingten and Ba

## Our Mint, its Rules, Charges and Operations.

For parting silver from gold when gold
is below 300-1000ths. fine
.. 3cts per oz.
"from 30-100ths. to 750-1000ths fine. 7 cts" "oz. $550-1000$ ths to $950-100$ ths " 14 cts Deposits Silver Bullion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 3cts. per oz. gross weight 301 " 500 , 7cts,

Deposits for Fine Bars
$\$ 116-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contaiued $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 1$ 2lcts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars

Deposited for Dollars.
\$1 16-4-11ths. per standard oz. 16 per ct. gross value for coining, when gold is contained, refining charge the same as in purchases.

Deposited for Inported Bars.
$\$ 116-4-11$ ths. cents per standard oz. 1/2 per et. gross value of deposit for making bars.

THE MINERS' I.ABORATORY.-NO. VI:
HOTT TO PROVE TIE PRESENGE OF COPPER IN MINERALS AND

## other substances.

In order to proceed in a legitimate manner, to discover the presence of copper in mioerals and other matrixes, it is necessary that the miner should be made somewhat acquainted with the chemical tests for pure copper and in or der that he may be made so acquainted, we will set before him some few of the prominent ores and how to obtain them.
Dissolve about 1's oz of the sulphate of copper (blue ritriol) in about 6 oz . of water, divide the solation into six parts and proceed as follows:-

To No. 1, add a small quantity of the sulphide of ammoniam which will mmediately give you a black precipitate of the sulphide of copper.

To No. 2, add a solution of soda, which will immediately throw down the hydrated ox'de of copper in the form of a green powder, which will become black on boiling.
To No. 3, add a drop or two of the solution of ferrocyanid of polassium, this will give no precepitate but will give your solution a mahogany color.

T $\mathcal{N}$ No. 4, add ammonia in excess and you will obtain a very deep blue colored solution.

Iu No. 5 , place a strip of bright iron or zinc and a few drops of hydrocloric acid (muriatic acid) and the copper will be deposited in a metalic state on the iron or zinc.
It would be well that those prospec'ing for copper shou'd make themselves perfectly familiar with the above tests.

Having giveu you a few of the most reliable reactions of copper with reagents. I will now describe to gou how to prore the presence of copper in minerals, de. The substance to be examined for copper must in the first place be reduced to very fine powder and if insoluble in water must be dissolved, if green color in hydroch'oric acid, and if black or jellow in nitric acid. Vaporate the excess of acid after complete solution and dilute with 4 to 6 times its bulk of water and divide it into two parts. To No. 1, add ammonia in excess and you will obtain a deep blue solution, if copper is present. It is very probable the solution will be muddy at first-allow the solid matter to subside in order that you laay examine the solution.

In No. 2, you must place a strip of bright iron or zincif copper is present it will be deposited in the metalic state upon the zinc or copper. With these two tests, one confirming the other, you caunot fail to discover the presence of copper.
apparatts and chemicals requited for conducting tee above tests.
6 Glass Test Tubes.
1 Small Glass Funnel.
1 Spirit Iamp.
1 package of Filtering Paper.
1 \#. of Aumovia-1, Paper. Nitric Acid.
is. of Hydrochloric Acid-1 pint of Alcohol.
The value of the whole would not exceed $\$ 500$.
the comparatire talue of some of tee most convon of the ORES OF COPPER.
Native Copper generally occurs almost pure, and in almost every conceirable form, as massive, granular, filiform (thread like), arderescent, in thin lamina, etc. When found associated with other metals, such as silrer, for instance, the two metals usually occur in juxtaposition, simply, and not combined, a coudition which they readily assume when melted together in the crucible.

Sulphuret of copper is a very rich ore, fielding copper 76.5 ; Sulphur 23 ; and iron .5.

Red Oxide of Copper is a very rare and rich ore. Very little, so far as we hare learned, has yet been found in this State. When free from earthy impurities its yield is 88 @ 91 of copper, and $9 @ 12$ of oxygen.

The Black Oxide of Copper, in its pure state yields from 70 @ 80 per cent. of copper. Both the black and red oxide yields readily in the reducing flame of the the blow. pipe a globule of copper.

Fariegated Copper Ore (Teacock Ore) gives 50 @ 56 per cent. of copper, and promises to be quite common in the mines of this State.
Copper Glance, or Redruthite yields from 70 @ 79 per cent of copper, when quite pure, and in that condition may be readily melted in the ordinary flame of a candle.

It sometimes, though rarely, occurs in connection with Bismuth, when it falls as low as 18 to 20 per cent.
Antimonial Copper is ueither very common or rich. It sields 20 @ 25 per cent of copper.
Green Carbonate of Copper (Malachite) in its pure state contains 57 per cent of copper.
Blue Carbonate of Copper is usually a richer ore than the green and contains from 65 @ 70 per cent. of copper.
Gray Copper, is a very rich and promises to become a quite common ore, in this State. Its yield of copper is from 40 @ 50 per cent. This ore often contains as high as ten per cent. of silver, and sometimes a suall quantity of quicksilver.

- Copper Pyrites is the most abundant of the ores of cop. per and usually about the poorest. Its yield is greatly affected by the presence of iron and raries from 12 to 30 per cent-rarely, however, reaching 25 .
If $t m$ is ever found associated with Copperin California, it will probably be with this description of ore. When so foud it is usually in about the following proportions:Copper 30 ; tin 26 ; iron 14 ; sulphur 30.

INDICATIONS OF TIN PYRITES-ASSOCLATED WITH COPPER.
Tin Pyrites occurs massive, like copper ; its lustre is mètalic, with streak black; color from steel-gray to iron-black, sometimes presenting a blueish tarnish, with an uneven fracture. When heated in an open tube it gives off sulphurous fumes, with a slight sublimate of the oxide of tin. On charcoal, with the blow-pipe, the sulphur is first expelled, after which a dark scoriaceous (pertaining to dross, like the dross or scoria of metals) globule is obtained. The charcoal will also be coated with the oxide of tin. With so-
da, a globule of impure copper is obtained.
This species of pyrites may be more confidently looked for in a granite rather than a slate region. Copper miners will do well to keep a good lookout for this mineral, as, if found it will be a valu uble ore.
Arsenical Copper (Domeykite) which may be known by its reniform and botryoidal appearance, (reniform, having the shape or form of kidneys; botryoidul, shaped like a bunch of grapes) is a very rich, though somewhat rare, ore. It yields, when pure, about 70 per cent. of copper, and 30 of arseuic. Its composition sometimes varies eo as to bring the copper as low as 60 , with arsenic 20 , and 20 parts of iron and sulphur.
Sulphate of Copper yieldsabout 25 per cent. of metal, and occurs irregular in shape and in three-sided crystals, with a glossy lustre, approaching to sky-blue, in lustre. I'his mineral is often found dissolved in the water which issues from the miue. The copper from these waters is obtained by precipitation with iron. At a mine in Wicklow, 500 tons of iron were laid at one time, in the pits into which the water was collected, and in about twolve months, this iron was all decomposed or disolved, and each ton of iron was found to have deposited two and $a$ half tons of a redulish mud, which was an oxide of copper, and which upon proper treatment yielded 16 cwt of pure copper to each ton of oxide.

Copper Ore.-The Steamer Panama, which arrived here from the North last week, brought down several tons of very rich ore from the Dol Norte Copper region. The Mammoth Company sent a quantity of sulphurets of extraordinary richness. The Eroca sent about 100 bags of rich oxides. The Mines of the Del Norte region are being rapidly developed, and are promising to be exceeding rich in both quality and quantity of ore.
At last reports there were some 500 tons of copper at Stockton, on its way to this city for shipment East. This ore is from the Napoleon, Union, Keystone and other mines in Calareras. The amount of copper ore now com. ing formard is beginning to be quite important-although but a small portion of that which is being raised.

Lake Bigler.-This beautiful sheet of water covers an area of about 300 square miles, and is 6,000 feet above the level of the sea. It is engulfed between two ridges of mountains which form on either side some of the highest peaks of the Sierras. The central portion of thrs lake has recently beer sounded to the depth of 2,400 without finding bottom.

## NEW MAP OF THE UNITED STATES.

We have now hanging up in our office the most accurate and complete Map of the United States, which has ever been published. In size it is about 40 by 50 inches, and contains the naves of 300,000 Towns and 31,000 Railroad Stations, all distinctly lettered. Every Railroad in the United States and the Canadas, with every Station estab. lished prior to June 1862, is clearly and distinctly laid down on this Map, as well as all the principal Rivers, Fortifice. tions, Battlegrounds, etc., up to the above date. The Map is divided off aud colored in Counties, and has been prepared at great cost from actual surveys. The Maps prepared by Mr. Lloyd, are used by the Officers of the Army and Navy everywhere, throughout the Union lines, under the sanction of the Secretaries of War and the Navy. So confident are the publishers of its accuracy that the Map bears upon its face the following note, distinctly printed in large type :-"Any one finding an error in this Map will be entiftled to a copy, gratis, by writing to the publisher." The Map is sold only loy Canvassers. An Agent is now canvassing the City for its sale. No Dwelling, Office, or Counting. Room should be without a copy This Map is published by J.T. Lloyd, and should not be confounded with an inferior publication by H. H. Lroyd.

Prospecting Machivery.-Quartz Miners and Prospectors at the mines, desirous of having their ores practically tested in this city, can have every facility for doing so by forwarding them to Mr. Williams' Reduction Works, near the Miners' Foundry, at 261 First Street. Mr. Williams has several machines in operation at his establishment, among which are Pond's Crusher, Kimball \& Ellis' Stamp Mill, Howland's Grinder for Quartz Tailings, etc. The quartz thus reduced can be carefully amalgamated in Wheeler's Pans, or by other processes, as may be desired.

## GENERAL MINING STOCK REPORT.

REPORT OF EIDS
At the San Franclsco Mining Stocla Board, For the week ending june 8,1863 .

Uitica
Rhodes Diggings


## LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO,



# D E S K S <br> Office Furniture, <br> F AIL KINDS...... FOR SALE BY <br> JOHNWIGMORE, <br> 223 Caliporieta St., San Frascisco. <br> uFFTCE sOBBISG, of all Kta ls, ateated to. <br> PALMER, HANSCOM \& CO., GOLDEN STATE IRON WORXS, 

No. 19, Firat Street, San Francisco, arnish Castings and Machinery of all kinds (Arsutne Wutte Iron Shoes and Dies. PALMER, HANSCOSB \& CO.
To Quartz Miners. Knox: A Improved AMALGAMATING PAN, ALMER'S PATENT' STEAM CEEST vae abote combination secures the most complite amaly mation of tho precious metuls of


 Goidin spite Ikoy Works
Nos. 19 \& 21 First sircet, Ean Frubciero
Tuep public aro informed that Letters Pateut have been ankill he undersigned upon stram Chest Faluc Botpins fur tho inside of Amalgamatng Paus or Tuus, and ec cnutinned agaiust making, buying iusing or selling
ue same without his concent.
i. A. PALMIER.
T. C. Sanborn \& Co, STOCK BROKERS,
No. 630, Montgonery Street.
$J^{\text {Phir silyer minng stuck, }}$
GOCLD \& CURRY MNING STOCE, chomlar mining stock,
CALIFORNIA STEAM NAMIGATIOX CO'S SIOCK, BOUGHT \& SOLD.

## DEETKEN'S

hemical and Metallurgical Works, On San Bruno Road, Islais Creek, SAS Feaxcisco
YOLD BEARING SULPHURETS WORKED AT REAS-
 IBher than the BEST AMIALGAMATION PROCKSS.
 prlunced havds at a cost of $\$ 50$ to $\$ 100$, if desired by
ilin owners. No power nor clean water required for - purpose.

## LEWIS COFFEX AND RISDON, FEAM BUYLER AND SHEET IRON

The only oxcluslvely Boller Making Establizhment on ho Pacitic Cosst Owned and condusted by Pructiral
Biler Makers. All ordors for New Work, the ropairing rold Work, executed as ordered, and warrauted as © quality.
pld Stand, corner Bush and Market Streets. LEWIS COFFEY.
J. N. Risbon.

「HEODOR KALLENBERG Maker of Models FOR INVENTORS.
 V ical Instruments, Scalos, Welghts, etc.: Repairing of Machinery pronptly nttended to.
No. 4 Sansome street, corner Miarket, 17.3m)

San Frangesco.

International IIotel, Jackgon Strekt, ........ Sin Frineisco [A few duore athove moutgotions]
FIREPROUF BRICK BLILDING.

## stint converningt to the


OPEN ALI, N゙GHT
40 City Railroad Cars Pass the: Donr. REDUCTION IN PRICES.

Ftue Bnthing Rooms attiched to the marber shon
Warna athl Culd showor Raths Free to tiuests.
THOROLGHIY RENOVATED AND NEWIY FTR
 Putent spirlug bod and Hair matirewates. The:
al olfera to gueath the greatost numiler alal

Best Furnibied Family Room;
and sets as cood $A$ table as any Hothee in the City 1 ant determined hat the Ismisathesi, siall he the

 eujuy ${ }^{\text {ed }}$ her
Priuciples.
F. E. WEYGANT, Proprietor.

Tremont THouse, 418 and $4: 30$..... Jackson Sirect,
 THIS FINE, FIRE PROOF BCILDING OFERE STAIY only tulf a blluck from the Post Once and Cwl lutu House,
and about the sutoe distanco from the principal phaces of Armuseraent.

The City Railroad Cars pass the Door.
The House is conducted on Temperance Princinles,
which seccres to our guests quiet.
 by the day, meal or week. We solutr a cals pron arl.

For the accommodation of my many gursts I bave taken aud refurn sliked the Isterantrovir Hoter, nin will wislinge to put up at cither bouse, , ynapy take tibe Tremout
or Internationnl Hotel Coach and be tuken to sither House with their baggnge, Frbs. F. E. WE YGANT.

## Voleanic Smelting Furnace.

 tendiug to mambe une of tho Eame, when satisged of its superiority over all other meaus of redu:cing ores and
separating metals front the sulphurets, can obtain all separating metals front the aulphurcts, can obtain all needed explanation and advice in reg ard to the eame, nnd
the terms of sale of rights to uise the same, ou application
Coe

 Drawngs may bo sees at the offee of Cul. J. D. Sterenson
No 614 Herclant atreet, or at the oflce of T.Ogg Shuw a Branuan's Building, slontgomery strect. The time required for reduciag ores by this-Furanc
is from threc to eight hours, and the amnust of fuel ouly one-tenth as much as is consumed by other processes.
Tho proecss of condensation is applied to this Furnace Which usually esearpe iu a volatile form.
The attention of alininorested in the subject is requested
to examino the important results obtained by this pro. to examino the important results obtained by this pro-

Parties wishing will be allowed to erect a trial Fur arco of a cepacity for smelling one top of ore or more, on use it, should they continue to mike usc or the inght to or a longer period iban two mouths.

## LEANDER RANSOM, Civil Engineer AND

SURVEYOR,
Having been connected with the public works
of the Stale of Ohio for 20 years, and the public of the State of Dhio for 20 yearo, and the publi
surveys of the State of California for 7 years. ALSO
state locating agent.
And as such having the sale of 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in eash and the balance on $\begin{aligned} & \text { credit of } 8 \text { bveral years. } \\ & \text { OFFTCE: Scond noor of }\end{aligned}$ ber of Montgomery nud Californius slseets.

| The Occiden <br> ls Now |
| :---: |
| Open for the Recoption of |
| THIS HOLSE HAS ALL THE HODERN IMPROVE 1. mehta, athl whil be condurtod cequit 1" "very se |
| then niteil nil with sinetal referince to the combert and cuaveactice of the prabice geaerally, baviug a |
|  |  |
|  |
| CABINET FOR MINERALS |
| nch Telegr |
| all the lines |
|  |

John R. Sims,


ory, Vancouver's Island, Britlsh Columbia, or any and dispatch.

Mr. Sims Appreciates the Past liberal patronage of his friends, and trusts that he may

## re to merit it in the futur

For the Informition of Strangers he would say that he feels coubdent that his experi-
ence in his particular calling is surpassed by nouc on ence in his particular calling is surpassed by nout on
this const, which his superior work, sent to almost evethis const, which his superior wort, sent to almost ere
ry town in this state, Oregon, also Victoria and the Sandwich Islauds, and to be soen on somo of tho best buildings in San Francisco, fully attast. A large assortment
of second hand shutters for sale at low rates. apia

## NATHANIEL GRAY,

 General Furnishing Undertaker, G41 sacramento st., Cor, of WebbFULTON FOUNDRY \& IRON WORKS
HINCKLEY \& CO.

Steam Engines, Quartz, Flaur and Sat Mifles; Cast Iron Fronts, for Buldingas, Mining Pumps, AND ALL EINDS of MAChinery, Etc., FIRST STREET,
** All kiuds of Iroy and Brakg Castisgs furnished at short notice. Every style of Frazshing to Irou when cast. Repairing of Machinery neatly done. D. B. Minckley. Wm. E, Worte. Wy. A. Field.

## W. T. \& J. GARRATT,

## Gity Brass and Bell Founders

## Cor. First \& Market ats., San Francisco.

D ABBET METAL CASTINGS, FIRE ENGNES, FORCE B and Litt Pumps, Church and Steambont Bells, Tav-

 POSE, Iron steam pipe furnished with fitings, "Ga ratt's Putent Inayroved Journal Setal.

## SQUARZA'S PUNCH.

FIRST PREMIUM
IT THE SACRAMENTO AGRICULTURAL STATE FAIR

## FOR 1862.

ALSO; FIRST PREMLUM
At the San Franeisco Bay Distriet Agricultural Fair, 1862
Manteactory, wholesalib afd retart,
No. 44 Leidstorfi street,
Opposite the What Cheer House, San Francisco.
 For fale by allsupp Chandera and Trallesmen, in boxes

## 25 POUYDS FIRE-PROOR PAINT.

When need on Roofs, Buildinga, or Fencee, it le equal to coreriug them wath a cona on stune, beivg
Fire Proof, and cunstius less than uny palut. DIRECTIONS:
FoLse:-Mix three parts Mineral Paint with oue par
White lead, hin with Luthsed vil: if a liguter color is wanted, rni ROOF:-Five purte ir Mincral Paint, one part white
 \&. C. BRADEHAW, Agt. WORKS, North Beach; Office, 318 CaliFornia st., Sme Francisco.

## WRIGHT'S PICKS.

$J^{\text {OHN }}$ WRIGHT, of Sacramento, bas estabisboc humseif in San Francisco for tho manufucture of every description of 1 ICRs, of the best material, at reduced prices. Pick ExEs of the best iron furvished in any quan tily, at low rates Orders from the country promply attended to. N. B.-Noue genuino uuless staniped with my name. JOHN WRIGHT, 511 Market street, Opposite Battery, Sau Fraccisco.

## REMOVAL.

O FFICE OF THE PACIFIC METAL
 uov e enabled to reduce from 10 to 15 tous of silver or
Gold rock per day
Gold and
 versmiths' sveepmgs reducell or purchased.
COPP\&R OBE O-lighcest market rates advauced in cash, Cor sbypmeats.

## WANTED,

$G^{\text {GLD QuARTZ SUITABLE For }}$ CUTTING JEWELRY,
by frontier 1 . detiercy,
${ }^{133 p}$
487 Pine atrcot, San Fraucisco.

FREDERICK MANSELL,
mechanical \& architectural
DRAUGHTSMAN,
No. 422 California street, corver of Leidsdorf.
Drawings of Modess made for parties applying for pa ents at Wastiongtou or London.

## HAYNES \& LAWTON,

inforters and dealersin
CROCKERY, GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS,
Silver Plated and Britania Ware ${ }_{2}$ ETC, ETC., ETC.
NO. 516 SANSOME STREET,
[ [CORNER OF MERCHANT,]
San Fraxaisco.

## SPECIAL NOTICES.



Office of the Tennesee Gold and Silver
 Eesmmeat ol One Dollar and Fifty cts per khare unon the
 on or betore Saturday, the 3 Sc day of May, 1863 .
J.F. \& H. H. SCHAFER

## BEDDING and FURNITURE,

Blankets, Camforters, Sheets, Etc., Etc. Nos. 504 and 506 samsome Strcet, (Xear Clay,
This Establishment is now generally kuown to be the Cheapest Place in the City for good Belding.
Branch Sture...... Rroad St., Nerada.

## WHEELER'S Amalgamating and Separating Pans.

It is acknowledged by all who hare examined the principles and withessed the operation of these Prans, that they are decidedly superior for trituratiog and amalga. The most important principle connec
The mast important principle connected with the ope-
ration of these Pans is the seraration of the trituratiug process from that of extracting the amalgam from the sand. The chief cause of luss of the precious metals ari-
ses from the passing off of the same io combiuation with the quiclssilver, during the proces of trituration, and in cleaning up. By the introdtction of the Separatigg Pau
to follow the trituration this ioss is entirely avoided. In working these machincs there is no appreciable loss o guicksiver, and hence nove of the precions metals.
There these Pans buze been introduced aud operated
ov the side of others tin sands from the same rat, the ov the side of others cin sands fron the same rat, the Thecler Pans hare unforinly gained a large perccotage
nf metals over its competitors, as well as a still larger nf netals over its competitors, as well as a
parcentage in the ameunt of work performed.
*** These Pans man be seen in dails operation, at the Miner's Foundry, on First street in this cits, where al nosb-tf

## PEOPLE'S

Steamaship Line! conmecting Califormia and New York via nicaragca.
g50 Miles Sholterthan any other Route
The Fast and Farorite Double Engine Steamebip,

## MOSES TAYLOR,

J. H. Blethen.. Combander Will be dispatched for
SAN JUAN DEL SUR,
From Mission street Wharf.
WEDNESDAT, . . . . June 10, 1863. Punctualif at $90^{\circ}$ clock, A. 31., on Connecting at GRETIOTIX with the Splendid Ster mship america 2500 Tons.

Reduced rates of Passage and quick trips are secured by the re opening of the Jicaragua Route. clean liness and safety, auà every eflort will be made to insure the confort of pass nevers
For furlier information apply to
230 No. 407 Washington Street, opp. Post Ofice

The Pacific Mineral Compnay M [are liberal adfances upon the ores of Copper, Siliter, Tin, Nickel, Coballt, Zinc, Lead, and Sclpherets containing Gold. Dine acenuat taken of all raluable metals combined will Siver aud Coppe: Ores, and advances made therePortiei nwning undereloped mioes and desiring capital
Pat to prospect the same will receive assistance, if, upou ex-
amiuation, such leads are deemed suffeiently raluable amiuation, such leads are
to justify such expenditure

OFFICE, No. 1, ODD FELLOTS' HAIL,
je1-tf Houlgumery Street, SLu Francisco.

## MARTIN \& Co., <br> OFFICE--.224 Mon'gomery street, $\tau^{\circ} \mathrm{p}$ Stairs,

 mill contract for thePurohase of Copper Ores,
Assaring 8 per cent and upwards of Cnpper to the Ton. Te will make ADVANCES upon Ores of COPPER, TIN and NICKEL in furnishef and Freights Paid on all cousiguments if desired by the consignors.
Henry Martin, J: F. Grepnman,
Sul Francisco Foct Offics, Box 1559.
je 1.

## REYNOLDS

Patent Cut-0ff and Governor FOR STEAM ENGINES.

127 of these Invaimable Machines, ARE NOW IN USE
In California and Nerada Territory, giving a perfectly regular motion and
Saring 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

Is the CHEAPET. SDBILDET and QCICKEAT to act


Clark's Steam and Fire Regulator,
For controlling the Draftor Blast by npening the Chimwey or ralve in the Blast Pilie by the pressure of the
stema in the bivile. It will steglate the prescure to a pound on the siturare incli. It cassore get out of order
and any persoun can put one uy in an hour after the damand any per:
per is put in.

## Ingersolls Patent Drill Press,

With which drilliug can be done the same as with the
eommon rachet, guburlien emall holes are malted, il eommon rachet, fuburlien small holes are malited, in
can le done tour times as fast. The handie caa be wor

## Folt for Steam Boilers, Pipes, Etc..

Steam Engines, Boilers, Pipes, Hydraulic Presses, Shafting, Pulleys, Etc., at the low

Anti Incrustation Pawder, A Sure Kemedy for Sesle in Steam Bnilers, without inja-
Tr th ne iron. In use for the pasi ETGHT years.


Cotell \& Cn. Skn Jose,
and 2,000 others in the Cinted states.
E. T. STEEN Agent.

No. 33 Fremont Etreet, San Francisco.
Percy Douglas,
IMPORTER OF
CROCKERY,
FRENCH CHINA, Glass Ware, Etc., Etc.

No. 421, MONTGOMERY STREET. SAN FRANCISCO.

## A. C. MORSE, Mining and Real Estate Agent,

 Ofrycz-S. T. corner Pine and Silver sts., Aurora.HATING MADE ARRANGEMENTS
 and SELI, crery description of Miniug stockis in Eameraldu District

## MYERS\&DAGGETT'S <br> Mining and Stock Exchange, <br> No. $233 \times \mathrm{z}$ B Street, Virginia City, N. T.

Mining Slock:s of All Einds Bought do Sold.
Business conuected with Mining Stocks of every deecrip
${ }^{*}{ }^{*}$ Al Alstracts of Titles Furnished, Etc.

## Pacific Mail Steamship Company.

N OTICE

A RRANGEMENTS HAVEBEEN MADE
Gold, Silver and Copper Ores
can be furwarded under through Bills of Ladiug from Rua Frameisen to England, at reasomable rates. For further particulars appls to
A. B. FORBES, Agent,
23.tf Corber Sacramento nud Leidedorff streets.
P. M. STEAMSHIP COMPANY.

> NOTICE.

Until further notice, the steamerss of
Prchic Muil stoamsilp Company will bereafter be
3d, 13th and 23d of each month.
When any of the abore dat sfail on Sunday, the steam
A. B. FORBES, Agent.

## Wm, P, TAAFEEE, <br> IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and sacramento streets,
San Francibco.

## A. ROMAN \& Co.,

Book Establishment, 417 and $4 x 9$ Montgomery street, SAN FRANCISCO.

Orders respectrulty solicited and promptiy attended to
A Treatise Treatise on Hetalurcy. Comprising Minng and Gen
eral and Particclar y itallargical Operations, Etc.
Etc. By Yrederick Overman. Etc. By Frederick Overman. Manual or Me tallurgy,
CLemistry of Metal.
Cremistry of Metals
oranda for the t'se of allurge, or Pacts and Mem-
By James Plillipe or the Mine Agent and Smelter.
nual of Metallurgy, more particularly of the precious
metals; but includ ing such olbers as are emploged
in dental practice.

Practical Sining and Assaying by Phing.,
Miners' Companion and Guide, complited by Silvors
Miners' Companion and Guide, compiled by Silversmith.
Assayers' Guide: or Practical directions to Assayers, Mi-
Practical
itver Or
Practical Assaying, by Michell.
itver Ores and Silver Mines
Tre's Dictionary of Arts, Manuractures and Mines.
Tesbach's Mectanics of Machinery and Engineer
Weisbach's Mectanics of Machinery and Engineering
Scrillo's Hydraulic Formula Tables. Necillo's Hydraulic Formula Tables.
Fresenins' Chemucal ADnlsia
Together with minuy other wo
and similar lines
vat. Books imported to order on short notice.
A. ROMAN \& Co.

417 \& 419 Montoomery street.

## New Patent Agency <br> We fave connected with Thi <br> The Patent Agency Business,

And would inrite Inventors and Discoverers on the $P$
cific coast, who wish Dispatch as well as Economy to a cific coast, who wish Dispatch as well as Economyto ca
upon us. We have an Fxperienced Agent at $\pi$ ithin upon us. We have an Fxperienced Agent at ithio
ton, which, together with our own experience of sever ton, which, together
years, renders the

Mining and Scientific Press Agency The most desirable place to make application for Letter Patent on the Paciac coast. Apply at
Cfice of the MMining aud. Ecientisc Press," Roon
Vo 27, Fineral Building, corver of Battery and Wast ington strects, ( Building, corner of Battery ami Fas Fraucisco. ETFER \& SMith.

FOREIGN PATENTS OB'TAINED By application at this office, Room 25 , Federal Buildin ETHER \& SMITH, Solicitors.

NOTICE TO INFENTORS. nrenfors wieling to file Cayeats should apply at th
Office, Room No. 27, Federal Building. Terms mod" Office, Room No. 27, Federal Building. Terms mod"
ETVER \& SULIE.

PATENT RIGHTS.
Patent Rights Boaght and Sold, LWER \& SMITH.

JMPORTANT TO INTENTORS.
Surentors who obtain their Patents through this 0ma an have their inrentions illustrated add descrined
he columns of this paper FREE of charge, they mere furuishing the cogravinge. We are also prepared to fu uiftl engrarings at reasnuable rates. Thrse whu do t care to go to the expense of havinge engravings prepar. cau have tibir inventions fully noticed aud described
our columne, tree of charge. The frec use of our a our columns, tree of charge. The frec use of our
umus to ail them in introducing their inventions to public wall be found a most important advantage to
EWFER \& SJITH.
EWS. vevtors.

## P. M. S. CO.

PACIFIC MAIL STFAMSEIP COMPANY road with the steamers of the Atlautic and lac Steamship Company at Aspinwall. FOR PANAMA.

The folloning steam
month of Nay, 1863.
June 13th, = -.- Steamer Constitutio
June 23a,
Steamer Orizab

Till leave Folenm Street Wharf, with Passengers a
Treasure, for P'ayama
AT $90^{\circ}$ CLOCK, A. M., PUNCTUALLY, Add connect, via Pavama Railroad, at Aspinwall, w
steamships for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento and LoldesdorII sta
Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom say francticco.

FIEERY DESCRIPTION OF IRON AND BRASS MAC in the state of Cationdin, will be furbished with , patch at the Miners' Foundry and Machine Wortis, 88 Steam Eugines and Boitere, Flower, Saw and Qua mill machivery, Mining Pumps, Amalgamators, Retol
Etc.,
Sic.,
Particular aftention will bo given to the manufact of Machinery in Sectiona, designed for piaces of difth access, Tarious models of QuartzCrushers, Amate
tor's and Water Wheels-Some in operation and on bition. Partles desiring to test their ores practically, small quantities will be afforded ample facilities, fr
cost. cost.
All partics desiring accurate and highly fnished din inge and Superior Machjnery, at most reasocahle
are cordially iurited to call before contracting elsewh HOWI.AND, ANGEL \& KIN
Salf Francisco, February 23,1663 .


The accompanying cut represents the A malganator invented by Mr. Thos. Varin of this city. The inventor resided n Virginia City from Nov. 1860 to Dec. 861. Huring that time the ext acting fretals from th ir ores, particularly ilver, having become a matter of deep nterest to many, he was led to examiue he nuchinery in general use for amalgamating, and becaus convinced that it could be improved. From that tinue to the present he las devoted his time and attention entirely to this subject.
His theory is, that to extract the precious metals from their ores, particularly Iver, the ores must be reduced very Ane-that ores will continue to yield metal as long as the particles can bo reduced n size and that no process can extract he metal by umalgamation until the ore a made fine.
Further, that the particles of metal as soon as liberated, should at once be prought in intimate coutact with quicki) ver ; hence he deems it necessary to oulverize the ores in the presence of quick ilver, but the machinery should be so ponstructed as to grind the quicksilver as little as possible
Furthermore that the apparatus heretofore in use has been too slow in its operation, making too much machinry uecessary.
Like most valuable inventions, this machine has passed h.ough a regular series of improvements, from its commencement to the one above illustrated. It seems to us hat this A malganator is a very great improvement on maphinery heretofore in use, and the great demand for them goes to show that others think as we do.
To explain the operation of this invention we copy from he specifications in the patent granted Dec. 16, 1862.
"This inveution consists in the employment or use of a rotary and stationary muller placed within a suitable pan or fub, provided with a cover and arranged in such a manner that when the device is in operation the ore will puss in a current or stream ontward frow the centre, and butween the mullers to the circumference of the same and thence onward over the upper rotary muller to the centre of the same, and
 ary one, to be again thrown to the periphery of the mul lers; thereby causing all the particles to be brought in contact with the quieksilver, \&ec."

This invention also consists in the employment or use of curved or spiral scrapers, placed within the pan or tub, and arranged relatively with the upper surface of the rotary muller, in such a manner as to insure the passage or move ment of all heavy substances in the pulp, along with the current, \&e."
The machine which we llustrated in this paper some time since, called "Wheeler"s Amalgamator," is in principle and and mode of operating, similar to the above. $\Lambda$ suit is now pending' in the U. S. Circuit Court, between Mr. Varnex



Effect of Phessure on Hilegrrn-conprerring Ponver. - M. Jilie Wartmann has found experimentally that the electric conductibility of copper wire is s*nsibly diminished by a pre sure of 50 atmospheres, that this dimunition increases with the pressure, and disap pears who o the pressure is relieved. The experiments were carried un to 400 atmospheres. These reaults es ablish a new analogy between heat light, and efectricity.

Ture Enterprise Gold \& Silver Mining Company recently filed the $r$ certificate of Incorporation, with a capital stock of $\$ 100,000$, in 1000 shares of $\$ 100$ each. C. A. Jamee, President ; Rodney Clark, Secretary. The mine of this Cmpany is located in the Colorado District, Mexico.

Plumbago.-The Tone Copper Mining Co., at a depth of about 35 feet, have struck black lead, about two teet wide, said to be of an excellent quality.

The coinage of the United Statos Mint, of this city, for the month of May emounted to $\$ 2,206,000$.
and Mr. Wheceer and others for infringement. These Machines work 1000 toss, at a batch, and will complete three tons in twenty-four hours. They are manufactured by Donayue, Booth \& Co., at the Union FounDRY in this city, and the workmanship is superior to anything we have seen in Amalgamating Machinery.

Tons of Bullion.-According to the Territorial Enter prise, the daily shipment of bullion from Nevada Territory, at this time, is teo tons. Two tots of bullion, as it comes from the Washoe nines, is worth about $\$ 125.000$; and that amount per day would give three and a quater millions per moasth, or $\$ 39,000,000$ a year. 'These are pretty large figures; but perhaps the present shipments ure being made from a surplus of past accumulations, which will soon become exlausted and so let down the yield, in a short time. to a reasouable figure-say one million per month. Washoe will be entitled to all the credit in mineral productiveness, that any similar extent of population need ask for, if she will only come up to the latter figure during the ensuing tivelve months.

War Risks.-The increasing depredations upon our commerce by the English-confederate pirates, has had the ?effect to materially increase the charge for war risks upon vessels passing from the Eastern States or Europe to California. The war risk has besn cradualy advanced, until it has now reached 10 per cent., which, with the ordinary charge of 21 , (a) 3 per cent., makes a very heavy tax an general merchandise seehing a market in this State.

The Gipson Quartz Mill, in Tuolumne county, turned out ,5000 week befure last.

Revenue Tax Upon Procucts of Iron Foundries.-
The Dommissioner of Internal Revenue has made the following decisions with reference to taxes imposed on various products of iron.
1.st. All steam engines, whether marine, locomotive or stationary, are subject to a duty of three per cent ad volorem. 2d Cast iron shafting is liable in all cases to a apecific duty of one dollar and fifty cents per ton, under the act of March 3d, 1863. Wrought iron shafting, if held to be manufactured within the meaninig of division No. 71, is liable to a tax of three percent ad valorem.
3d. Railroad car-whoels are taxable in all cases, one dollar and fifty cents per ton. All other castings ofiron exceeding ten lbs in weight, not otherwisp provided for, are taxed one dollar and fifty cents per ton, by act of March 31st, 1863.
4th. Castings of all description made exclusively for instruments, articles or machinery upon which duties are assessed and paid, are exempt from duty under section second, act of March 3d, 1863.
5th. Castings notexceeding ten pounds in weight, which are so well known and so generslly used as to have a commercial value in themselves, are taxable three per cent ad valorem, when not otherwise provided for.
No Draft in Cahifornia.-The draft will soon be enforced in the Fast, but it is stated that there will be no draft. ordered in Califurnia, unless a foreign war or an important demonstration on our lower borders should make it necessary to raise toops here.
Remoral. - Mr. Wm. Shiels has removed his office from its former location on Merchant Street, to 309 Bush Street. Mr. S. is largely interested in the Copper interest.

## THE MINERS' I,ABORATORY.-NO. VII.

METALLIFEROUS TREATMENT OF PYRITES
No mining district in the world, probably, is more prolific of Pyrituous ores than the State of California and the adjoining Territory of Nevada. The treatment of Pyrites, for the metals of gold and sulver is one of the most difficult of metallurgical processes, and one in which but few have succeeded. Perhaps no one on the Pacific Coast has been more successful than Mr. Deeteen, at his works near this city, on the San Bruno road. Millions of dollars have, without doubt, been allowed to pass away in the auriferous pyrites contained in the tailings of our quartz mills, which have been allowed to run down the creeks and ravines near which the mills are usually placed. The treatment of these stubborn ores is a matter involving great chemical skill, and has been made the subject of much study and experiment. Hence any sugge.tions on this subject coming from sources of acknowledged skill and experience, are ever deemed valuable. Mr. Deetken's process is known as the "Hydrechloric process, and his modus operandi was fully described by our predecessor in this paper, about one year ago. We have long intended to visit this establishment and again speak more fully of it, and shall endeavor to do so soon.

In the concluding portion of this article we have alluded to "Keiths Desulphurizing Process," which was fully described in our issue of the 2 nd of March last. Our presen purpose is to lay before our readers the ideas of a pructical Metallngist of Washoe, upon this subject, as communicat ed to the Washoe Times, from which we quote.
"The necessity for the sulphurated ores being reduced to a powder as fine as flour, must be self-apparent to every one as it is connected and combined with two of the most subtle matters known, sulphur and arsenic, both of which, we will hereafter show how they may be effectually discharged without loss to the valuable contents of the ore. It being the Tact that these two substances pervade the whole body
of the ore, it is clearly evident that the ore must be reduced of the ore, it is clearly evident that the ore must be reduced
to the finest powder, ere their enemies can be attacked with a certainty of overcoming them. To effect this, the ore should, after it leaves the stamps, pass through a series of sieves, say three in number. These can be very inexpensively arranged, in a case or housing lined with sheet zinc, which will prevent any of the material from escaping, and entirely preclade any annoyance to the parties engaged in the reduction works. These sietes should be so arranged that the coarser parts of the ore shall be deposited in a chamber for their reception, is order that they may be recru-hed, and the finest-reeeived in a bin by itself.
As stamps appear to be the asual mode adopted in this country for crushing the ore, we have treated of their use first; but the best method of crushing these ores, is $b$ crushing mill, composed of three pair of cast rollers, with chilled faces, which are easily renewed, and with the sieves attached. By this method the ore is reduced to the finest powder, as none but that fit for use comes down ; the coarser particles, that will not pass through the sieves, being carried back to the upper hopper of the mill without any manual labor, and without the smallest loss either of power or material. This wethod requires little or no attention, and thereby saves much expensive labor. We will assume that there is a bin filled with finely powdered ore. Now, let us examine what we have in this compound. Here is iron in arsenicated sulphuret, arsenic in the mass, as well as in as-
sociation with the iron, salphur admixed with all the matesociation with the iron, salphur admixed with all the material, and silver diffused in the same manner in particles as
fine as the sulphur itself. The first ingredient to be attacked is the iron, which we have shown is an arsenicated pyrites. Having this matter in a highly-pulverised state,
there is no difficulty in altering its whole chemical feature, there is no diffculty in altering its whole chemical feature,
by converting it into an oxyd. This is not a very costly process, the reagents fur accomplishing which would not cost in this councry, more than five dollars for a ton of ore. This process requires a few days, according to the amount of iron that the ore contains. The whole material will now be in color, from a slate gray to a light reddish brown. In this state the iron will give forth any of the precious metals that may be held in combiuation. Having subjugated
enemy number one, we now attack the combined antagonisenemy number one, we now attack the combined antagonis-
tics of arsenic and sulphur This is effected by placing the oxydized material into a large wooden vessel called a desulphurizer, having first adınixed with it the reagents that will cause it to give forth both the deleterious materials with
which it is charged. 'The cest of these reagents would be which it is charged. 'The cest of these reagents would be
from three to four dollars to the ton of ore. Each desulphurizer should hold from one to two tons of ore, or they may be made larger should it be required. This wooden ressel is made steam tight, and is filled by a run hole on the top. To it is attached two or three pipes, with cocks, by which steam is admitted, aud the whole mass is kept in motion by the means of wooden arms, attached to a shaft of the same material, which is moved slowly by any power that the works
may have adapted. By this method the reagents are ad ${ }^{-}$ mixed through the most minate portions of the ore. On the top of the vessel is tixed an iron gun-barrel pipe, in which is a stop-cock, which is kept closed at the cominencement of the proness, but opened gradually as the heat advances. The desulphurizer is nerer filled to repletion; therefore the space unoccupied by the ore is filled with sulphurated arsenicated hydrogen, which is allowod to pass off through the gan barrel pipe, which should be long enough to carry off the rapor to some distance from the works, as the flour of arsenic will fall in coming in contact with the air; or, a safer
plan is to carry the pipe, with an inverted discharge, into a a tank of water placed sufficiently high to receive it. This tank mus! be used for no other purpose; the flower of arsenic will be precipitated there, and no deleterious effects will be communicated to the air. This process of removing these two ingredients will occupy from two hours and a half, according to the amount of sulphur, arsenic and sulphurous acid that the ore contains. The appliances to effect this object are also inexpensive in their character. even in this comintry. This simple method of desulphurization precludes the necessity of using either the roasting or reverberatory furnaces; it does the work required with more ease, and more effectually and mnch more econonomically,
and without any liss of the valuable contents, and also without any annoyance to the men employed - as there is n dust or pernicious vapors thrown off in the buildings-and the labor is lessened by two-thirds, as one man can well attend to three vessels; added to which there is no loss of a portion of the metalic contents of the ore, as in the use of the reverberatory furnace, in the use of which-the ore be-
ing a sulphuret and brought in contact with the fire-the combustion that takes place in working the ore, causes the gaseous portions to be given off as a sulphurated, arsenical hydrogen gas, and combnstion carries with it a portion of the silver. This can easily be proved, by placing a nicee of silver in a covered crucible with some powdered sulphur and arsenic, and placing the same in a white heat for half or three-quarters of an hour and then removing the cover of the crucible; when, immediately, the oxysen of the air comes in contact with the contents and a brownish vapor will commence to ascend, and, if allowed to remain in the fire a few minates, on removal, the silver will be found to have been volatalized and passed off iu gaseous vapor.

> J. B. 'Truckee.

In a subsequent communication to the \%ime, "J. B. Truck-
ev writes as follows in allnsion to the "Keith Process":
"The method of the reduction of the ore to a fine powder by the means of a hollow dram, with the edge runner fan in side, I have no doubt is a very efficacions and quick method of bringing the matrix to the pulverescent state in which it is uniformly required, and which is a very primary desideratrm, and one to which too much attention cannot be paid. * * * I am of opinion that the desulphurizing process is not so good as the one which I mentioned in an article in your Journal ef March 'th [The article here referred to is the one we have copied above-Ed. Press.] and for several reasons:-
First, the use of fire in the operation of desulphurization must be attended with some loss of the valuable contents of the ore, which is an arsenerated sulphuret, by the fact that the heated ore, most, in throwing off its sulphur and other deleterious matter, ini a gaseous form, and in contact with the oxygen of the heated air, carry with it a portion of the sulphuret of the silver contained in the ore. which mast be evolved and pass off. thereby making a serious discount on the percentage of yield in the results. This loss will be nec essarily increased according to the larger amonut of sulphur etc. contained in the ore. In fact, this plan is open to the same objections, as the use of the reverbatory frornace, and must secondy, be far more expensive than the simple meth
od spoken of in the paper above referred to. By the use and admission of steam to the vessels there described, and the perfect manser of the admisture of the simple rearents, the desulpharizing is effected at the least possible expense, and in the quickest possible time, in the most effications manner, and without the possibility of the smallest loss of the valuyble contents of the ore, from the deprivation of any of its valuable contents. I do not wish to be thought egntistical in my views of this subject, as I have no patent for this simple process, but merely introdnce it in purpose of showing how easily the most subtle papers, for the parpose of showing how easily the most subtie coes the the dued and entirely dispelled."

## THE " KEITH PROCESS."

A correspondent of the Washoe Times appears to be very desirous to learn something about the cost, etc., of the machinery employed at the Pike's Peak Mines for reducing quartz in connection with what is known as the. "Keith Process," remarking that "It would be of great general benefit could the inventor (Mr. Keith) furnish us with some daa as to the cost of the e drums, and copies of the drawings or lithographed plans of the invention, and the amount, of oyalties that he would require for that portion which patented."

The machine referred to is a Rotary Crusher, known, we believe, at Pike's Peak, as the "Young America Crusher:" The method of reduction is by the rapid revolution, in a hollow drum, of a set of arms or beaters. T'hese arms are made to revolve, $i$ we mistake not, at the rate of ten or twelve hundred rotations a minute. The quarta being thrown into the machine through a hopper, is instantly reduced to a powder by the rapidity of these beaters, and forced out in a very fine dust by the current of air provided by the rapid motion.
This machine can be obtained at the Golden State Foundry in this city. Messrs. Palner, Hanscom \& Co., the proprietors, have already constructed several of these machines, for a Mrxican Company, under the direction of Mr.
Leeds, who has used it in the Atlantic States. The cost of Leeds, who has used it in the Atlantic States. The cost of
the machine is about $\$ 300$, and it will weigh, all ready to run, about 1300 ths.
The use of this "pulveriser," as it may properly be termed, equires a first breaking up of the quartz into very firie fragments. Say to the size of hazlenuts. The best maschinery to accomplish this portion of the work, with which wo are acquainted, is "Blake's Stone Breaker." This machine has a world-wide reputation as an efficient and relinble agent for the reduction of rock of any kind to small fragmenta, such as are required for macadamizing roads, manufacturing concrete, etc. It is also very generally used by iron ore smelters in Pennsylvania, and Missouri, for reducing their ores-the hardest in the world - to a proper size for smelting. These machines are constructed of different sizes. One which will crush, say one and a-half tons of quartz per hour, will weigh, with frame all complete for running, about 6000 ths-the castings alone will weigh 4000 , and will require a six-horse power to drive it. Machines are made of five graduating sizes up to twice the capacity of the orie above described which is the smallest made. The machine is so constrncted that it can be driven by any power less
than that required for its full working, down to two-horse power, the product of the machine, being simply reduced in like proportion. One of these machines may be seen in almost constant operation at the foot of Market St., in this city.

We fully agree, with the correspondent above alluded to, in hisopinion of the "Keith Process." This correspondent, by the way, is evidently one of eminent practical and scientific attainments, in every department of mining. He has been for some months writing a series of very valuable metallurgical articles for the Washoe Times, over the syguature of "J. B. Trocker." We quote the conclusion of his letter, already referred to :-
"1 should certainly feel much obliged for more information on the sabject of Mr. Keith's simple crushing mill for pulverizing the ore, as I have no donbt that it is a vast in provement upon the ponderous stamping process, of which I am no admirer, for I prefer the crushing mill. Mr. K eith's
method appears to be more efficacious, as well as more expedicious in its work, for it appears to reduce the ores to the finest powder without the aid of sieves, which are requirad in the ordinary crushing mill. His invention requires to he well thought upon by all parties interested in the reduction of the ores of this conntry, as, if it can perform what is stated of it, a vastamount of power of reduction will be
tanced by every mill throughout the Territory; and t tanned by every mill throughout the Territory ;
same amount of propulsion used in a stamping most certainly produce nearly double the results and if the ore is turned out in the state described, it is in a much bet ter condition for giving forth its contents than nine out ten mills are capable of reducing it to. It must be clear that the extreme rotative momentum of the fan in the dram
must be next to irresistible by any substance coming in contact therewith.

Mono County was organized a little more than one year ago. It is a long, narrow strip, extending in length from Walker's River to the 37 th parallel South, a distance of about 150 miles. In breadth it extends from 20 to 60 miles. Mono Lake is in the center, and Owen River waters a considerable part of the central and southern portions.

Death of an Editor--Datid Wentworte, Editor of the Oroville Union, died on the 27th ult., of congestion : the brain, aged 34 years. Mr. W. came to this State i 1860; has resided in Oroville since August last, at which time he engaged in the publication of the Union. He
leaves a wife and child in the East. He was a relative o Mrs. Sigourney, the Poetess.

## MINING AND SCIENTIFIC PRESS.

## REMOVING:SCALE FROM BOILERS.

A series of important experiments have recently heen oried unt at I'ortsmouth un hoard Iter Majesty's paddin faner Wallaco, under the sup rision of Mr. G. Mardock, divetor of machinery afioat at that port. The object nght to be at ained, is the removal of the scale generated the surface of steam boilers and their tabes, by other and jre expedicinus means than 'hy the present system of manI labor. The importance of the suliject will be fully comehonded by all who may be in the slightest d. gree converbo with sleam machinery. Under the present system ould a ship's builer require cleaning out, or cleaving from ale, while on board the ship, all the boiler doors have to taken off and a number of men sent into the boilers to an the scale by manud lubor. By these greans, with the eateat oxertions and any amount of time, possibly 10 per nt. of the scale inight be removed, and with this small imfrement the engineer well knows the reliet he finds in tiug steam. By the system which has now been undering so long a series of tests on board the Wallace, only e tuor of the builer has to be taken off to allow the in duction of the steam pipe. The boiler to be acted upon then filled rapidly wilh superheated steam at a temperafo ef $4010^{\circ}$ of heat; this actiug upon the saline deposits the surface of the hubes, and other parts of the b ifler, ex nds and disengaged it from the several parts. After this boiler is again filled with water, and steam got up in usual manner, and kept up for a few hrurs, and on afwards blowing off the boilers, they are found to be as from scale as when they were first put on board the ship. e experiments have been highly successful. 'The saving fuel alone in our steam ships of war from adapting this In to their boilers, will be very considerable, and the dele scale may be removed from a ship's boilers in 12

A very remarkable specimen of scale may be seen the chemical laboratory in Portsmouth Dockyard, which sa removed from the boilers of Her Majesty's ship Sidon en under the command of Sir Charles Napier. The impssion of the tubes on the scale is perfect.

Batance Rolling Bridges.-Mesers. Turner and Gibson the Hammersmith Works, Dublin, have invented balance ing bridges, of a very simple and convenient construction, Wich are easily worked' and especially adapted fur crossing $k$ entrances, canals, \&c. The bridges have aiso been erec, and fonnd to answer admiradly for ordinary traffic and railroads.

Amertcan Silafr in Canada.-A letter from Toronto mada, says that it is estimated that there are 30 tons of hercan silver in circulation, or rather heaped up, in T'oto, London and Hamilton. Merchants take it only at 5 l cent discout.

## TO MINERS AND PROSPECTORS.

In view of the frequent accidental discoveries of valuable reeral deposits, other than gold, in almost every section of State, which have of late been made, it is but reasonato suppose that prospecting even in California, has but themmenced. The simplest and most universal of all taliferous deposits is gold. It rarely occurs in any other sin than that of "free gold" which is reudily discernable to naked eye. An examination of any rock or earth for ad is an extremely simple process. If its preseuce is susfted in alluvium, the simple washing of that alluvium in a If is an invariable test. If in rock of any description; hner as alluvium, will usually expose its gold to the naId eye, if there 18 any there in paying quantity. The only coptions, are where the gold is contained in iron pyrites, copper pyrites containing also iron. In either of the fo latter cases the presence of gold may be readily ascerned by placing the pyrites in any suitable vessel and 1) ping the contents at a moderate heat for from four to six furs, with frequent stirrings, by which means the sulphur I be evaporated, and the copper, if any is present, changto a dull red color, and the gold retaining its natural aparance, on subjecting the whole to the usual panning pcess, may be readily seen by the naked eye.
Not so with other metals. Silver, copper, zinc, nickel,
and many others appear in such a great variety of metalliferous lorms ae generally to defy ull hut the most practical ant seientific ege. No description of these ores can be written which will aflord any very important aid to the int experienced in making explorations. Altur reading descriptions, however, and crurefully e.camining the specimens described, the explorer may go out and search with some degree of confidences and intelligence. A study of the characteristics of the sulphuret ores alone, would lead an explurer to pass over, entirely unnoticed, the rehest varieties of the ores known as Chlorides or Hurn Silver, which, frum the facility with which they may be worked, and their usual richness, are generally considered the most valuable of silver ores. There is much reason to believe that this variety of silver ore will be extensively found in all the volcanic re gions of this sitate. So with many other ores.

Considering the great difficulty, in the present lack of cabinet collections, and ather means of iustruction, to acquire a practicul minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our ninural resources, we hereby make the offer to $m$ 'ners, prospectors and all others, who in their travels or explorations may come acruss specimens having the appearance of rarity or value, to carefully examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. Wa have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be presented to us.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. The ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral walue are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found apon or near a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notice of the California prospector. These articles will be published under the head of "The Miner's Laboratory," and will be found of great value to the mining public. [Mining and Scientific Press, April 20.

Subsoribe.-A Are you a miner and not a subseriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanies, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no papfr that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the Mining and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and vecome patrons of the only mining paper printed on the Pa cific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examination, and with the hope that it may so for meet with their approval as to warrant their suhscrilsing for it at once. It is not our usnal eustom to receive a subscriber for less than six months ; but inasmuch as we are ansious to introduce the paper where it is not now known, we will, for the present, send the Priss for three months even. on the recelpt of one dollar, in coin or stawps. It is our belief that no one will wish to discontue the paper after being a constant readәг of it for even that short period.

## Attining and Srimtific gle


 C. W. M. SMITE and W. B. EWER, ; ; . . Proprietors

Engravings, Elcetrotypeg, ote.



 vantag" of a Widl Ciroulation throughout the l'aclace Const in the bect Ad vertsing slodium to be found inthe country.

## To Printers.

an Intranst in one of the mont fioursising and hert paying Newapa par Onleces in the monntaibs is alfered fur sate on easy terms. A rafe of portunity is herely preseated toany printer duafrous of extablishing himself in a good busimess in one of the healthiest, most thriving and delight. ful molntain towas in the state. For further iafurmution enquiro at this nilice.

## MINING AND SClENTIFIC PRESS.

THE ONLX MINING, MECHANICL AND SCIENTIEIC PAPER ON THIS CONTINENT.
TIMRD YEAR: VOLUAE NI.-NEW EERIES:
A uew volume of this extensirely circulated paỵer commenced Sent. 11,
1862. It is intrnded that every number shall be replete with information 1862. It is intended that every number shall be replete with information
concerning Miniug, scientife, Meehanical and Induatrial pursuits, together with several origimal engraviuge, of new juventious, etc., prepared expressly for its columins.
This japor is devoted to the above purposen, together with tbe interesta of science, Arts, Agriculture and Commerce, and any general joformation
that may bo of interest to the reader : und it is the intention of the proprio tor to spare no paius or expense in making it equal in interest and valuable laformation to any paper yot puhlished.

## The Mining Interest !

Will find it of grant value, as it will contrin all the news anpertaining to Mining, the prices and sales of Mining Stocks, bew inventions of Mackinery
aditperl to that purposo, and of everything generally that may be of servic to the Miner.

## The Inventor !

Will find it an excellent mediam for the purpose of bringing his invention into notice, of ascertaining the progress of invention in this and other
countries, and alno of receiving any information that may bo necessary in obtuining his patent, the preprietor having had great experience as a Patent Agent, together with facilities at Washington that enable him to ob ain Patents with dispatch.

## The Mechanic and Manufacturer !

Will be greatly beneftted by its peruanl, as cach number will contam sevs eral oricimal engravings of new machines ado inventions, together with lacge amount of reading matter apperlaining thereto. We are constict ahall coutinue to extract whatever maty be of beneft or intorest to ou

To Chemists, Archiiects, Millwrights and Farmers ! This jourtal will be invaluable. All new discoveries in Chemistry will be given, and $n$ largo tumonit of information of great sorvice to Arclitects and
Millwrights will be found in our columus. The Farmers and Planters will not be neglected, engravings will be given of agricntitural implements, and the farming interest generally will be amply discussed.

## Terims.

## Club Rates. <br> Five Copies for Six Monthe, $\$ 8$. Ten Copies for Six Months, $\$ 16$.

Ten Copies for Twelve Months, $\$ 30$.
Fifteen Copies for Twelve Months, \$st.
For all clubs of Twenty and over, the yearly subscrintion is only $\$ 280$ Names cau be sent in at different times and from different
Specimen copies will be sent gratis to any part of the country.

## EWER \& SMITH, Publishers,

Room 27, (Formerly) U. s Court Building, Corner of Washington and Ba

## Our Mint, "its Rules, Charges and Operations.

For parting silver from gold when gold
is below $300-1000$ ths. fine. ..............3ets per oz.
" from $30-100$ ths. to $750-1000$ ths fine. 7 cts ${ }^{4}$ " oz.
 $750-1000$ ths to $950-100$ ths " 14 cts
Deposits Silver Bulhion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contsined for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 3003 cts . per oz. grose weight

## 301 " 500 , 7ets,

## Deposits for Fine Bars

$\$ 116-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. gross value of silver for making bars; also when gold is contained $1 / 2$ perct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 121 \mathrm{cts}$ per standard oz. 1 你 per ct. gross value to be ad ped for making bars.

Deposited for Dollars.
\$16-4-1lths. per standard oz. $1 / 2$ per ct. gross value for oining, when gold is contained, refining charge the same as in purchases

Deposited for Tmported Bars.
$\$ 116-4-11$ ths. cents per standard oz. $1 / 2$ per ct. gross value of deposit for makivg bars.

## SƯPPORT YOUR MINING PAPER.

The Minting and Sicientific Press is the only mining paper in California, and the only medium through which our miners can derive, to any extent, that practical infurmation in relation to their difficult and hazardous calling, which is so esseutial to an intelligent and successful prosicution of their bnsiness. Small as is the morlicum of information we have yet been able to give, we have frequeutly had the satisfaction of peranal assurance from our mining readers, that they have often been benefitted by one or two numbers only, more than they could possibly have been by a full year's subscription expended in the purchase of any book or book in the State. We intend to embody in the papers under the head of "Miners' Laboratory," all the pullished information saluable to muers, and all that can be obtained orally or in manuscript, from such intelligent mivers and mining writers with whom we may meet or correspond. Of course, we do not expect to exhaist the subject in one, two, three or four yearis. Mining, like all other industrial callings, is progressive, atd almost every day is developing new facts, in some quarter, which it is desirable should ve laid at once before the mining pablic. This office it is our aim to perform. in addition to collectiug and pl cing before them all standard information. The present is most emphaticully an age of progress, and no one can hope to excel $r$ succeed even, in any occupation, without being kept constantly pested in the current improvements in relation thereto.

California, is now upon the mere threshold of mining. Our labors, thus far hare been like mere pin scratches upon a school boy's globe.

In years to come, and in few years and short, compared to mining progress in other parts of the world, we shall be burrowing deep, thousands of fathoms deep, into the bowels of the earth. Then other knowledge than that $r$ latiug to mere surface workings and surface indications will be needed. So long as we continue to manage this paper, we shall endeavor to time our articles devoted to mining instruction. to the most urgent necessities for the time being. We are now in the midst of a "Copper Excitement," and for the past few weeks we have heen endeavor ug to throw out a few practical hints which shall be most adrantageous to our copper hun!ers. If any think we have failed to give important information on this point, let them invest $\widehat{5} 50$ in the most judicious manuer possible, for books treating upon this subject, and see how much information they will get for their $\$ 50$, on the ground which we have traveled over; over and above what we have given them for one dollar in in the Mining Press.

We shall for the present drop the "mineralogy of copper," and devote a tew numbers to the various processes of separation and concentration which the ores of copper require, to prepare them for a market or for the furnace.

We shall take up Silver, after we have done with Copper. as our next and perhaps most important subject for examination.
As we stated in the outset. the Mining and Scientific Prese, is the only paper in California, and in fact, on the Continent, which is expecially devoted to the mining inter-est-particularly with the view of collecting, collating and imparting valuable information to the working miner. Other papers of our City and State devote a liberal share of their columns to general, local and topographical information with reference to the mines, and to some extent keep up a record of their progressive advancement. That class of information, however, is valuable only to the general reader, or to the miner, so far as it may aid him in seiling his slocks; but it is of no possible advantage tn the working miuer. as an aid in the difficult and, to most in this State, untried calling of developing our mines or seeking' oat new ones.

True, we are devoting but a small space to this class of information, from the fact that in a journal of this kind it is necessary to give variety to its columns; but with an enlarged sheet, such as we propose, we shall be able to do full justice to this important development. As yet we have been able to issue a shert of only very moderate proportions. But we commenced with nothing, aye worse than nothing, as we have been compelled to overcome a most deep seated antipathy against our predecessor, which has cost us far more labor and money than an entirely new eyerprise would have done. This antipathy, we believe, has
been pretty much overcome, and we have good reasons for thinki.g that all who are nuw duing business with this office are perfectly satisfied with the manner in which our busi-ue-s is transacted.
Our enterprise, commencing as we have already said from nothing or worse, has gradually advanced until it is now self sustaining-at least upon its present basis. But sti 1 we are not satistied. We wish to double the s ze of our sheet, and trebble the amount of readiug matter. With such a paper we feel confident that we could be of vast serrice to the mining interest of the Pacific Coast, and, by the information which we could collect and disseminate, add largely to the general advancement and prosperity of the entire mining interest, to say nothing of the character, and additional importance which such a sheet would give to our great leading interest abroad. But printers will not work for nothing, and paper dealers, at the present time especially, come in fur a la'ge percentare of newspaper receipts.
True, onr patronage is increasing weekly and daily. Sub scribers are coming in from all parts of the State as we'l as from the city. Advertisers are also begiuning to find that the Mining Pressina valuable medium for introducing them to the public-esp cially those tran-acting business with the mines ir who are engaged in mechanical pursuits, and we take this opportanity to thank our friends, who have interested themselves in our behalf, for their efforts.
Prhaps we ought to be content to creep a while longer, but we much prefer to be taking manly strides, and to occupy a position commensurate with the interest, which we represent. This we might very soon accomplish, and double the size and usefulness of our sheet, if those in this City directly engaged in mining operations, would bestow upon us but a moiety of that patrunage belonging to us, but which is now scattered in varius directions and given to those jour nals whose only tendency in the direction of mining, is to foist upon the public, speculative operations, without imparting any practical information which shall be of value in the actual development of our mines. Our city circulation has now reached an extent and character, which renders our columns a desirable and appropriate medium for "mining notices" of every description-particularly notices of meetings, sales of stocks, se. Weekly insertions of such notices, as a general rule, are all that are requisite or of any benefit to the Companies. And the fee for such notices, if concentrated in our colmms. would enable us to accomplish the desirable object of increasiag our sheet from eight to sixteen pages, and so improving the paper as to give it a still wider circulation, and thus return to the comp nies, by its general usefulaess to the mining interest, four fo'd value for the patronage which they are asked to bestow to enable us to accomplish the end desired. We throw out these hints for what they are worth. The mining public can judge from what we have done to make a mining paper, what might be accumplished under more favorable auspices. The need of a first class muning paper all admit. There is ample business in this city to support it if it can be concentrated. It will cost the mining interest no hing beyond what they now pay -nay, less thau they are now paying, to establists and sustain such a paper. Will they do it?

A Most Elegantly Finisbed and ingenious piece of mechanism may be seen at the Machine Shop of Mr. David Stoddart, at the corner of Pine and front Streets, the same being a patent Injector, recently parchased by the Gould \& Curry Co., for supplyng the steam boiler of their mill with water.
This instrument is one of the most ingenious devices which the inventive genius of the age has produced. It bas been pronounced, by the most eniuent French Lingineers, when used as a feed-pump for steam boilers, as absolutely perfect in theory, and the best, most reliable and safest apparatus which has ever been invented for that purpose. The A caderay of Sciences, of Paris, have awarded the inventor what is known as the Montyon prize of 1000 francs, for having produced "the most deserving invention of instruments useful to agriculture, the mechavic arts, or science," for the year.
The inveution was first introduced some four of five years since, and is fast coming into geveral use all over the world. The California Steam Navigation Co. bare them upon eight of their boats; there are six in use at the Mare Is.
and Navy Yard. They are now being introduced into the mines of this State. The one above alluded to, designed to be put up at the Gould \& Curry Mill at Washoe, is well worth the attention of mechanics, as well for the beanty and style of its finish as for the intrinsic merits of the invention. Mr. Sroddant is agent for the sale of these machines on the Pacitic Coast.

## THE MINING STOCK MARKET.

No material change has occurred in the Mining Stock Market during the week. The same discrimination noted for a few wecks past still contiuues to govern operations, A few stocks of accepted value have advanced duting the past six days, while some shares of real merit have receded, through mere neglect, on the part of buyers. Stocks, especially in a fluctuating market, seldom remain firm at any figure, for any considerable length of time, without dematid. This is particularly the case in speculative stocks, or those whose value is based chielly upon prospective developments.
Gould \& Curry is still advancing and holders are mors colfident than ever, of the large dividende in future. The closing bid for these shares on Saturday was $\$ 5,100$, with $\$ 5,200$ asked. The advance during the week has been $\$ 700$.
Ophir is still declining. We quote to day at $\$ 2,150$. The continuance of low dividends, and large anticipated disbursements for additional mill facilities, etc., are bringing into the market the shares of irresolute holders, and a decline is a natural consequence, notwithstanding the firmness manifested by large stockholders.
The New Almaden Quicksilver Mine, according to the Mercantile Gazette, is in active opera'jon, the yield being abundant, and everything progre-sing quietly in the usual routine. The shipments of Quicksilver from this port, chief. ly the product of this mine since the lst of Jauuary last have amounted to 17,182 flasks (of 75 地. each) agains! 13,500 flasks for the same peried of last jear.
Sarage has further advanced and may be quoted at $\$ 2750$. It is expected that the first dividend of this Company wil. be paid the first of August.
Chollar.-The directors of this Cumpany levied anotheln assessment of $\$ 72$ per foot on Saturday last. The Stoch has been in considerable demand the past week, at an adk rance, but a decline may be looked for this week in conse quence of the uew assesement.
Potosi has attracted "nuch attention. On Wednesday some of the large holders threw their Stock on the Market at $\$ 400$ (6) $\$ 450$, with considerable sales, causing a panio amongst those who had been auxious to purchase early ir the week at $\$ 500 @ \$ 550$. At the close $\$ 450$ was offered for snall lots.
Daney has been in demand during the week at $\$ 390$. Thi dividend for June on 200 shares has been sold for $\$ 13 \frac{1}{6}$ per toot. One lut has been sold as high as $\$ 15$. Sanguiar holders.are expecting \$20.
Burning Moscow has been considerably dealtin, the past week, mostly on time. Much anxiety is felt by holders with reras d to the issue of the Ophir injuaction.
Yellow Jacket is greatly in favor, and closes firmly a: $\$ 925$.

## Overman may be qquoted at $\$ 200$.

Wide West commenced at $\$ 205$, and closed at $\$ 215$, witl a strung market.
Silver Hill sold as low as $\$ 34$.
Real del Monte, $\$ 140$; Utah opened at $\$ 60$, and closer firm at $\$ 70$; Bamboo, but little dealt in at $\$ 55$ to 60 ; Pont dropped to $\$ 20$, with considerable sules; Sunbeam, $\$ 7$ Rhodes Diggings, uccasionally bought at $\$ 35$ to $\$ 10$. Jo sebhine, a declining market, last suld at $\$ 1350$. Wiltor Springs, 650 to $\$ 8$. Union, (R. D.) $\$ 225$ to $\$ 250$. She , has a dull market, closing at $\$ 410$. Melones, adrancer to $\$ 115$. Sacramento and El Dorado, sold at $\$ 70$, withou any feature.
Lucerne is inquired for at $\$ 18$ to $\$ 19$.
Lauly Bryan has a uarket at $\$ 7$ to ap $^{7} 50$.
St. Louis has been largely operated in at small prices. Mt. Davidson is more in demand, and has reached $\$ 5$.

## THE COMPET INTERDT．

he C＇opper Interest is fast assuming a leading importance rroughout the state．The shipm ints of Copper Gre from ir interior are constanty increasing，while buyers of the efrom both home and forcign narkets，are multiplying in iis City．Capitalists have now become fully alive to the aportance of this new interestand the ateady adrauco of pork in reliable mines，is u sure index of the confidence felt their value aud permanence．Coppor ruises，in all arts of the world．have ever proved the most reliable and niform in yield，of any of the precious metals，and the meticed ege of uumerons experts from Cornwall and other upper mining regions，recognize，her，the same unmistuk－ We evidence of permanence and uuiformity which charac－ rise the nines of this metal elsewhere．
In addition to this most encouruging evidence，we have Iso the admitted fact that the mines or Califorvia，as a hole，so far as developed，far exceed in richness those of ny country，unles3，pertaps，we mag except those of Lake aperior．Ilenceit is not at all a matter of astonishment， hat public attention should be so strungly inclined in this irection，or that the Copper furore should even exceed the ilver mania on Montgomery st at high noon of cheerful day． From the Mines of Calaveras County we coutinue to ear the most cheering accounts．The product of the mines f that region is constantly increasing in quantity and im roving in quality．Stock in the Union Mine is estimated a high as $\$ 1,000$ per foot with none offering．
Tho Keystone，adjoining the Union may be quoted at 150 per foot，with but little offering．This miue has a arge force employed．Concentrating machinery is now be－ ug put in operation in connection with this mine．
The Napoleon may be quoted at $\$ 150$ with $\$ 250$ asked． the vein of ore in this mine is rapidly improving．
The Josephine，an extension of the Napoleon is offered t $\$ 35$＠$\$ 40$ per foot．We are not informed of the prog ress of the work upon this mine，although？we believe con iderable is being done．
The Newton，in Amador County，is still raising and for－ varding very rich ore．The mine promises well．We are hot aware that there is any of its stock in the market．
The Copper Mill Company is in the same vicinity，and is 180 coming into notice，although they have no stouk in the market．The Company is shipping ore．
In the Campo Seco mine，Calaveras County， 1225 feet banged hauds a ferv days since for $\$ 24,750-\mathrm{a}$ fraction over 20 per foot．
We understand that a fen of our prominent brokers are bout to visit the miues of Calaveras and Amador，to de－ ermine for themselves the capability of these mines to pay he dividends predicted by the present owners．We pro pose a trip in that direction ourselves，as soon as the con－ entrating machinerg now in progress of erection shall be pat infoperation．

From Placer and El Dorado Counties，we hear highly fa fourable reports．Much activity still exists in these Coun－ fies in the search for new，and the development of discover－ ed mines．
Similar reports reach us from Nevada County，although our advices from that quarter are not as full as we wish they were．Our correspondents，in that direction are somewhat remiss in their favors；in consequence，probably，of too much personal interest in feet．We learn that the＂Last Chance，＂of Rough \＆Ready have filed their certificate of incorporation．This stock is estimated very high．We un－ derstand that offers of $\$ 70 @ \$ 80$ per foot fails to loosen the grasp of holders upon their favorite stock．The mine at －llast accounts showed a 15 －foot vein，well defined．

In Butte County rich indications are constantly being fonnd，and prospecting is going on with much spirit．
In Del Norte，the lack of road facilities，and scarcity of experienced laborers is operating quite unfavorably to the development of the mines，although mcst excellent indica－ tions and prospects are everywhere found．These hindran－ ces will socin be obviated．T＇he Mammoth，from that sec－ tion，exhibits fine ore in this city－So also does the Alta．

At the Mount Diablo mines work is being vigorously prosecuted with encouraging prospects，but，so far as we have been able to learn，with no important results up to the pres ent time．

# GENERAL MINING STOCK REPORT． 

REPORT UF BIDS
At the San Franolsco Mintigg stock Board，
For tho werk cualing juwo 13， 1809.

| Namon of Comparitea． |  |  |  | 珨 | $\begin{aligned} & \text { 突 } \\ & \stackrel{y}{3} \end{aligned}$ |  | 童 | $\frac{i}{8}$ | 㨞 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10,8 |  |  |  |  |  |  |  |  |
| Gould d Curry | 4，8ue |  |  | 4400 | ${ }_{4475}^{2200}$ | $\begin{array}{r} 2400 \\ 4600 \end{array}$ | ${ }^{2150}$ | － 2150 | $\begin{aligned} & 5160 \\ & 5160 \\ & 5 \end{aligned}$ |
| Cuntral | 1，800 |  |  | － |  | － |  |  |  |
| C．alifurula | （1， 5,000 |  |  | 460 | $\stackrel{-}{476}$ |  | 600 | 50， |  |
| Potuesi $\therefore \therefore$ | 2．800 |  |  | ${ }_{600}$ | 460 | 3107\％ | ${ }_{410}$ | 52.6 | 820 |
| Hatc \＆Nurcross | 8.0 |  |  | ${ }_{850}$ | ${ }_{800}$ | ${ }_{875}$ |  |  | 425 |
| Sistria Nevada－ | 3，060 |  |  | 6＂1／2 | 60 | 47 | 49 | 47\％6 | 48 |
| Bucey－－asue＂ | 8,040 |  |  | 135 | － | 346 | 355 |  | 375 |
| Surnlye 3losuow | $\pm .800$ |  |  | 150 | － | 160 | 160 | 165 | 162 |
| Murgers，F V． E ． | 2，0000 |  |  |  |  |  |  | \％ | 30 |
| Maredita | $7 \times 200$ |  |  |  | ＝ |  | 34 |  | 31 |
| Clarlea Canoy | 1，800 |  |  | 80 | 75 | 75 | 80 | 8 82： |  |
| Sincrumento | ${ }_{\text {l }}^{1,808}$ |  |  | － | 二 |  | － |  | 70 |
| Lady Mrya | 6，000 |  | 100 | － | ＝ |  | － |  | － |
| Savage． | 800 |  |  | － | － |  | － | 2550 | 26.5 |
| lowa |  |  |  |  |  |  |  |  |  |
| Nortun． | 1，600 |  |  | 14 | 18 | 18 | 19 | 193／3 | 18 |
| ${ }_{\text {Las Cra }}^{\text {Lass }}$ |  |  |  | － | － | － | － |  |  |
| Purtor | 二 |  |  | ＝ |  |  |  |  |  |
| Burnsi | － |  |  | 19 | 21係 | 25 | 23163 | 22 | 23 年 |
| Alliatic Breouus |  |  |  | － | 51／2 | － | 16 | ${ }^{5}$ |  |
| Crair Hill Tunnel | 10，000 |  | 100 | ＝ | 二 |  |  |  |  |
| Muent mevidkon． | 10，0010 |  |  | 3 | 1／4 | 3\％ | 362 | 4\％ | 43＇ |
| Pridu of the West G．G．Quarz M．Co． | － |  |  | 二 | 二 | 二 | 二 | 143 |  |
| lmperial |  |  |  | 450 |  | － |  |  |  |
| Wur West | 2，600 |  |  | 190 | 200 | 200 |  |  |  |
| Autelone | 1，200 |  | 500 |  |  | 0 | 205 | 203 | 208 |
| K．smoralda | 1，600 |  | 1000 | 12 | 171／2 | 17 | 17312 | 17\％2 | 5 |
| $\xrightarrow{\text { Reni i iel Mo }}$ Stua | 4,400 1,200 |  |  | 105 | 100 | 140 | 160 | 125 | 10 |
| Exib | 1，010 |  |  | 60 | 69 |  |  | 70 |  |
| ver Hill | 3，000 |  | 500 | 40 | 35 | 35 | 34 | 34 | 4 |
| Neloral | 1，200 |  |  | － | 25 | 25 | 25 | 25 |  |
| Sederal | － |  |  | 二 | － | － |  |  |  |
| Jenny Lisd－．．－ |  |  |  | － | 5 | 1 |  | 238 |  |
| Fialls of Clyde．－ Sunbeain，年，W，ex |  |  |  |  | 7 | － |  |  | 8 |
|  | 600 | 1 | 500 | 423 | － | －－ | 42\％／2 | 55 |  |
| Josephiue－．－ | 4．800 |  |  | 14 | － | 13 | 13 | 19312 | 年 |
| Wiollow springa ： | 2， 3,600 | 1 |  | 二 |  | 7 |  |  |  |
| Empire－ |  | 1 |  |  |  | ．－． |  |  | 5 |
| Migxicas mongs． | 2，200 |  |  |  |  |  |  |  |  |
| Dius Paure－ |  |  |  | － | － | ＝ |  |  |  |
| Napoieou | 2，700 | 1 | 500 | 150 |  |  |  |  |  |
| ${ }_{\text {Naselbine－．．}}$ |  |  |  |  | － |  |  | 25 | 25 |
|  | ．．． |  |  |  |  |  |  |  |  |
|  |  | － |  |  |  |  |  |  | 二 |

## VIRGINIA CITY STOCK LIST．

Corrected for the Mining and Scientific Press，Thursday，June 11， 1863.

| Bid．Ask＇d Bid |  |  | Ask＇d |
| :---: | :---: | :---: | :---: |
| Virginia Mining Distric |  | Sierra Nevada ．．．．．．．${ }^{\text {S }} 55$ | Or |
|  |  | Sacrameato ．．．．．．．．．．．． 70 | 75 |
| Asblatid．．．．．．．．．．．．．．．．${ }^{8} 9$ | 10 | Slamruck | 15 |
| Allen：．．．．．．．．．．．．．．．．．．．．．． 90 | 100 | Texis ．．．．．．．．．．．．．．．．．．．．．． 6 | 28 |
| Atchisuts ．．．．．．．．．．．．．．． 1 ． 1 ¢ | － | Union | 100 |
| Alturas．．．．．．．．．．．．．．．．．． 5 | 7 | U．S．Thuแ⿺．．．．．．．．．．．．． 5 | 6 |
| Buividert ．．．．．．．．．．．．．．．．． 35 | 40 | Utah．．．．．．．．．．．．．．．．．．．．． 65 | 75 |
| Birdsall ．．．．．．．．．．．．．．．．． 30 | 35 | Old Virginia ．．．．．．．．．．．．． 250 |  |
| Bajazet aud Gollou Eran．．． 25 | 30 | Walshiugton ．．．．．．．．．．．．．．． 5 |  |
| Buruside ．．．．．．．．．．．．．．．．． 18 | 20 | Yurk．．．．．．．．．．．．．．．．．．．．． 6 | 8 |
| Buruing Muscow．．．．．．．．．． 145 | 150 | Zouave ．．．．．．．．．．．．．．．． 17 | 20 |
| Beach－Paxtou．．．．．．．．．．． 112 | 155 |  |  |
| Bloomingdale．．．．．．．．．．．．． 5 | 7 | Gold Hill District． |  |
| Croerus（Bucheaan）．．．．．．－ | 250 | Alpha ．．．．．．．．．．．．．．．．．．．．．700 | 750 |
| Cedar Hill Tupnel．．．．．．．．－＝－ | 5 | Baltic．．．．．．．．．．．．．．．．．．．．． 17 | 20 |
| Cale ．．．．．．．．．．．．．．．．． 15 | 20 | Bullion ．．．．．．．．．．．．．．． 75 | 80 |
| Comınercial ．．．．．．．．．．．．．． 15 | 20 | Belcher ．．．．．．．．．．．．．．．．．． 575 | 600 |
| Consolidated Cedar Hill．．． 3 | $33 / 2$ | Branch Mint ．．．．．．．．．．．．． 4 | 5 |
| Durgan．．．．．．．．．．．．．．．．．．．． 3 |  | Caledouia ．．．．．．．．．．．．．．．．． 35 | 40 |
| Empire | 6 | Copper＇s ．．．．．．．．．．．．． 10 |  |
| ElDoradn．．．．．．．．．．．．．．．．． 100 | 125 | Eureba．．．．．．．．．．．．．．．．．．．． 15 | 20 |
| Farview ．．．．．．．．．．．．．．．．．． 200 | 225 | Forcade \＆Ricurd ．．．．．．．． 6 | 8 |
| Gruss Valley ．．．．．．．．．． 65 | 75 | Gold Fill，Big Ledge．．．．．．． 40 | 45 |
| Flazel Greell．．．．．．．．．．．．．．${ }^{5}$ | 7 | Goldeu（Fate ．．．．．．．．．．．．．－． |  |
| Harrison，Virginia Incorpo 18 | 25 | tirlden Fagle（ $\mathrm{N}, 1$ 1）．．．．．． 12 | 15 |
| Harrison，San，Fran．lucor． 20 | 25 | Hawkcye．．．．．．．．．．．．．．．．．． 20 | 25 |
| Irving．．．．．．．．．．．．．．．．．．．．．$\frac{\square}{95}$ | 10 | Hudson ．．．．．．．．．．．．． 150 | 175 |
| Insurance ．．．．．．．．．．．．．． 25 | 30 | Kıh－- nonr ．．．．．．．．．．．．． 20.200 | 250 |
| Iowa．．．．．．．．．．．．．．．．． 115 | 1：0 | Leoa ．．．．．．．．．．．．．．．．．． 150 | 175 |
| Irousiles ．．．．．．．．．．．．．．．．．．${ }_{5}$ | 6 | 1．uboring．．．．．．．．．．．．．．．．．． 18 | 20 |
| Indus ．．．．．．．．．．．．．．．．．．．．． 10 | 12 | Lucerue ．．．．．．．．．．．．．．．． 8 |  |
| Juniata ．．．．．．．．．．．．．．．．． 10 | 12 | Mary Alul．．．．．．．．．．．．．．．．． 55 | 60 |
| Keystono．．．．．．．．．．．．．．．．． 28 | 30 | North Americiu．．．．．．．．． 20 | 25 |
| Kevosha ．．．．．．．．．．．．．．．．．．${ }^{8}$ | 10 | North（）phir（nomiual）．．． 10 |  |
| La Crosse．．．．．．．．．．．．．．．${ }^{9}$ | 10 | Overminh，．．．．．．．．．．．．．．．． 175 | 200 |
| Yancer ．．．．．．．．．．．．．．． 10 | 12 | Orieutal ．．．．．．．．．．．．．．．．． 5 |  |
| Stunte Cristo．．．．．．．．．．．．． 30 | 35 | Omegr | 500 |
| Merealith ．．．．．．．．．．．．．．．．．．． 40 | 45 | Priucess ．．．．．．．．．．．．．．． 90 | 95 |
| Mt．Davisisod | ${ }^{6}$ | Sinaloa ．．．．．．．．．．．．．．．．．．．．．．． 20 |  |
| Matssilou | 10 | Swrezy |  |
| 3 scBee | 25 | Steplienson－Kehwe．．．．．．．． 8 | 9 |
| Miltun ．．．．．．．．．．．．．．． 60 | 65 | Union．．．．．．．．．．．．．．．．． 40 | 45 |
| Monarch ．．．．．．．．．．．．．．．．．－ | 6 | Yelluw fachot ．．．．．．．．．．．． 700 | 750 |
| Madison．．．．．．．．．．．．．．．．．${ }^{20}$ | ${ }^{26}$ | Uncle Sam．．．．．．．．．．．．．．．．${ }^{2}$ | 5 |
| Mohegau ．．．．．．．．．．．．．．．． 10 | 12 | Yolo ．．．．．．．．．．．．．．．．．．．．． 20 | 25 |
| $\text { Sorton .................................... } 18$ | $\begin{aligned} & 20 \\ & 15 \end{aligned}$ | Devil＇s Gate Distric |  |

 improvemont culs be louked for in Vifgiala City，until more aulmatiou is noticed in san Fraucinco．

## ESMERALDA STOCK LIST．

［Corrected for the Miniug aud Scicutatic Preas，Miay 26，1862．］
 ing，which th is belioved will $y$ teld over $\$ 200$ to the ton．
The Ciucimawa has also a large amount of rock out at the shaft which is －－．
Triatrical－We Wave for some time contemplated sup－ plying our numerous readers in the country，with short the－ atrical criticisms，so that，on visiting the city，they may know where to find the best entertainment．This week， however，we have to confine ourselves to the Eureka，where the San Franciaco Minstrels nightly hold forth．Since the Eareka opened with this troupe，it has been well patronized by large audiences of both sexes，and it is well understood now，that the most fastidious need not fear meeting with anything vulgar in the performances．The singiog is of the firss－class character，with the solitary exception，perhaps， of a little too mach instrumental accompanyment．Birch and Cotton this week，in the＂Black Statue，＂＂Virginny Mummy，＂and＂Scenes in the Police Court，＂have been very happy．Let those given to fits of despondency take a dose of their drollery，and we vouch for a better frame of mind．Those，loving good music，and a good laugh，are un－ just to themselves，and these popular actors，if they omit visiting the Lureka．

## POST－OFFICE COMPLAINTS．

We hear frequent complaints from subscribers in varions quarters，with regard to the non reception of papers，＂and have found it impossible，in several places to extend our circulation，for the only reason that the＂Press＂can not be where the fault is．The paper is regularly mailed at the San Francisco Office，done up in strong wrappers，and carefully directed．Subscribers who tail to receive their papers regu－ larly should first learn from their local Oflice，whether，when the papers do arrive，they come in good order，or whether adI the facts to us．We will then endeavor to learn the cause
of the irregularity，aud sq far as possible rectify the same．

LIST OF MINING COMPANIES HAVING OFEICES IN SAN FRANCISCO.


## MINING ANDSCIENTIFIC PRESS

# D ESKS <br> Office Furniture, F ALL KINUS...... FOR SALE BY <br> <br> JOEN WIGIIORE, <br> <br> JOEN WIGIIORE, <br> No. 423 California St., Sa. Francisco. <br> oFFICE Jobicing, of all Kiude, attended to. <br> PALMER, HANSCOM \& CO. <br> COLDEN STATE IRON WORKS, 

 Fo. 10, Firat street, san Francisco, urnish Castings and Machinery of all kiads Genuine White Iron Shoes and Dies. palmer, hanscoarb \& co.To Quartz Miners.
Knox's Inmproved
AMALGAMA!ING PAN, ALMER'S PATEN'T' SHEAM CHEST. Fife above combination secirres tife sost - cannplite amalg'mation of the precivus metuld of hy prucer-s uow koww. ,uikal whaner, white it is pecularly adipteci wo tho
 Nos. 19 \& 21 Firsist sirvet, san Fruiciseo
The public aro ioformed that Letters Patent hare becen
 to cuthinged ayuinst making, buyiug, using or selling
po sme witbout his conselt. A. PALMER.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street.
D Phir silver mining stock,
GOULD \& CURRY MINING STOCK,
CHOLLAR MiN1NG STOCK
California steal navigation co's stock,
BOUGET \& SOLD.

## DEETKEN'S

hemical and Metallurgical Works, On San Bruno Road, Islais Creek,

GOI, bearing sulphurets wurken at reas

 iil ownera.
: purpose.

LEWIS COFPEY AND RISDON, TEAM HOILER AND SHEET IRON The only exclusively Boiler Making Establishment on
he Pucitic Count Owned and conducted by P'ractiral be Puctic Coakt Owned and conducted by Practiral piler biakors. All orunrs for New Wurk, the repairing
Oquatity, executed as ordered, und warranted as quality.
Ha Stand, corner Bush and Market Stroets. Opposite Oriental Hotel, San Francisen, Cal. LEWWIS COFFEX
J. N. RISDON.

## IHEODOR KALLENBERG

Maker of Models FOR INVENTORS.


 7.3m)

International ITotel,
dackon Sthemt, -.....-Sin Franclaco [A few duors almo Hontgutnurs.]
FIRE-PROUF BILICK BUILDING.
Moxt conventent to the
Steamor's Landing, Dubinws sta. \&t Places of Amusemed
OPEN ALL NIGHT.
Cise City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fioc Rathing Reome netechod to the Barber Sbop. Warm and Cold shower Baths Frce to Guests.
THOROLGHLY RENOVATED AND NEWI.Y FURThisheel this grring. Fivery Rouna npens to the tight


Beat Furnished Faminy Rooms; and skis as good a tamik as uny House in the Clity. Iam ilctermineal hant he Inteaxatumat shall be the

 eusyyd bu
Priuciples.

> F. E. WEYGANT, Proprietor.

Tremont IIouse, 418 and 420 [A few dours from Soutgomery,]


 amusement.
The City Railroad Cars pass, the Door.
The House is conducted nu Temperauce Pribciples,
which secures to our guests queter.
 F. E. WEYGANT, Proprietor.
 kell and refurninhed the Intzeyntosial Hitrat, and will
 with their baggage, FrEE.

> F. E. WETGANT.

## Volcanic Smelting Furnace.

PERSONS Destring information as To the cse
teuting economical properties of this Furnace. and iuteuling to mate use of the stmene, when satisfied of it
superiurity over nill superivity over all other means of reducing ores and
zeparatiug metals from tho sulphurcts cna obthio all
 the e eroms of salo of rights to use the same, on anpulicition
Col J. D. Steveuson or T. Ogg shaw, or by letter to the
 Drawiugs may be steu ut tha otlice of Col. J. D.Stevenson
No. 614 Slerclisut street, or at the office of T. Oge shaw, No. 614 Merchant rirent, or at the offec of T.Ogg Shaw
n Branuan' Buildng, Montgomery street.
The time required tor reducing ores by this Faraace is from three to eight hnurs, and the anmunt of fuel oul.
one-teath as mucl us is cousumed by other procerses.
The process of condensation is upplied to this Furnace which will gave all those purtions of precious metals
which usually exeape iu a volatile form.
The eittention of all interested in the sulbject is requested to examine the important results obtaiucd by this pro

Parlice wi hing will be allowed to orect a rial Fur




LEANDER RANSOM, Civil Engineer AND

## SURVEYOR,

Having been connected with the public works of the State of Ohio for 20 years, aud the publi surveys of the State of California for 7 years.

## ALSO

## state locating agent.

600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and the balance on a cratitit of secyeral years.
OrFICE: Secont foor of OLFICE: Secomit fono of Express Building, N. E. cor ner of niontgomery and California streets.

The Oceidental Motel
Open for the Reception of Guests.
$T$ His hocse mas All THE MORERN MPRROVE-
 been hitted up with specmul reterches to the coulfort aud

News Stand,
CABINET FOR MINERALS;
A Branch Tolegraph offeo, A Branch Tolegraph Offee,
Conuectiug will all the lines hroughouthe country.
LEWIS LELAND \& CO., LEWIS LELAND \& CO. San Franclsen, Jab. 1st, 1863.

John IR. Sims,


Oregon strect, between Washington and Davis and Fron
and Jackson structs, Say Fravcisco.
Manuricturers of Fire Proor Doo V1 Shuthers, Bink Vinuts, Grathg, hemetary Kuh All orders from the interior Uregon, Washangton
iory, Vatacouver's Ivand, British Colnmbia, or any lermiory, Vatacouver's aland, British columbia, or any and dispatch.

Mr. Sims Appreciatos the Past liberal putronage of his fricula, und trusts that he may
comtinue to merit it in the future.

For the Informition of Strangerg he would say that he fenls confident that his experi-
euce in hin particular calliug in surpassed by none on euce in hin pratticular callivg is surpassed by note on liss coast, Which his superior work, sent to almost eve-
ry town in this state, Uregun, alno Victoria aud the Sundwich Islauds, and to be seen on some of the best buildings iu sum Fraucisco, fuly attast. A large assortment of socoud hand shutters for sale at low rates.

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor, of webl,

FULTON FOUNDRY \& IRON WORKS
HINCILEX \& CO.,
manufattorizas op
Steam Engines, Quartz, Fleur and Saw Mille; Cast Iron Fronts, for Buindings, Mining Pumps, and all kinds of Machinery, Ete.,

FIRST STREET,
Between Mapket ayd Mission...........San Franctico.
** All kinds of frov avd Brass Castnggs furninhed

 D. B. Hincrley. ' Wx. e. Worth. Wa. A. Fuew.

## W. T. \& J. GARRATI, Gity Brass and Bell Founders

B abBet Metal castings, Fire fngines, Fonce B and Lift Pumps, Church and Stonambont Rells, Tav

 ratt's Patent Improved Journal Metal.

## SQUARZA:S PUNCH,

FIRST PREMIUM
at the sacramento agricultural statr fair FOR 1862.

## ALSO; FIRST PREMIUM

San Fruncisco Bay District Agricidtural Fair, 1862
Mangfactory, wholssalis afd retall,
No. 44 Lefidsdorif street,
Opposito the What Cheer House, San Francisco.

## To Mine Owners,

Parmies having a Guod sitver Jino aut winlung tor
Sactheery tw wank it fur aw interent in the Jino Will fin well to anply at thita officu. No urganized oom
pany nued diplly.

## 50 lbs. MARINE and

Fire-Proof Paint, M avuraciured by the pacific meralle rike 1


 nuite equal to cupper, no wor,
cheuper than uy other puilit.

## DIRECTIONS

For Decks of Shulp, ase two purts Mineral Paint, one part Whitev Leald, miswith Linseral Ull.
For Buitemsin For kotlomins of Vequels, use oue part grouud sulphiur
three paith slueral Paint, mix with Coal Tar and aphly
 of 50 tbs. outh, or by the Pacitide Me cuillurgical Works.
at POUNDS FIRE-RROON FAINT.
When used on Roofs, Buildiogr, or Fencer, it is equal
so coveriug thera with a coat ul stune, bewis perfectuy to caveriug them with a coat ot sthue, bengs perfectity
Fire Prouf, und coastiug less than uuy paum. DIRECTIONS :
HOUSE :-Mix three parts Slineral Paint with one par White lead, thiu will Lillssod oil: if a lighter color is Wiated, mix less paint, more lead
ROUF :-Five paite Lead: mix with Linseed oil. l'ut in thick part whin Roo as oue cout wheu proferly appliedwill last three years.
G. T. Fotrecr, Superintendent.
wORKS, North Eeuch; Offce, 318 Call formia ste, Sman Francisco.

## WRIGHT'S PICKS.

TOELN WRIGHT, of Sacramento, has estabitened himself in sun zrancleco for the manufacture of uvery description of 1 ICKS, of the best material, at reduced prices. Нick Eyes of the bestiron furuished in auy quan Lity, at low rates Orders from the country promptly attended to. N. B.-Nono genuiue uuless stamped with my дame. JOHN WRIGHT, 611 Market street,

Opposito Battery, Suu Fruceisco.

## REMOVAL.

O FRICE OF THE PACMPIC METAI. Waving entarged our Works at North Beacha, we wire Gold rock per da
Guld and silver ore, and Sulphuret Aseayers', or Sil versmatbs' sweppings reduced or purchasel.
COPP'ER OBES-lighest market COPPLER OBBE-Highest market rates advanced bu cash, for shipments. C. C. BRADERAW, Ageat,
318 Califoraia street, near Sabsume

## WANTED,

GOLD QuARTZ SUITABLEARER CUTIING JEWELRY,
by FRONTIER A. DEvIERCY,
Is ap
487 Pine streot, San Francisco.

FREDERICK MANSELL,
MRGCHANICAL \& ARCHITECTURAL
DRAUGHTSMAN,
No. 422 California street, corver of Leidsdorf.
Drawings of Modess made for parties applying for pa
ents at Washiog
mar 28
2us or
HAYNES \& LAWTON,
ImPORTERS AND DEALRRS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery,
CLOCKS,
Silver Plated and Britania Ware,
етс., ETC., ETc.
NO. 516 SANSOME STREET, 1.[CORNER OF MERCHANT,]

## MINING.AND SCIENTIFICPRWSS.

## SPECIAL NOTJCES.

Ofice of the Ophir silver Mining co., San Francisco. June 6, 1863.-A divideal on the capital slock of this Company bas been declared, payable on and after the 9 th iustant.
The frauster Book will be clused until the 9 th inst. THOMAS J. LANiB, Secretary.

Ortice of the Tuble Mountain Copper Co An assessment of Twopty Give ceuts per share was this
day tevied upou the capital stack of this Campany pyday tevied upos the capital steck of this Company, pay-
able immediately, in gold con of tho Unted states, to able immediately, in gold colin of the United states, to
the Socretary, it the oflico of the compkny, No. 528 , Moutgomery streot, Jf, G. ELMORE, Secretary.
san Fraucisco, may I8, J863.
$\frac{\text { San Fraveisco, way I8, J863. }}{\text { The Annual Mecting of the Stockhold }}$
 at the Ofice of the cempany, Nut 3.88 youtgome San Francisco, May 18. 1863. td.

Office of the Nevada Copper Mining Ca. March : 14, 1sis3.-At a mecting of the Board of Trustees
held this day, at assessment of Forty Gebts per stanre was levied upon the Cupital Stnek of the Gompray, pay able twenty (20) cents per share within thirty days, and wenty ( 20 ) conts per share within sixty dars from this date, to the secretary. By odder of the Trustees,

Ofice of the Tennesec Gold and Silver Sining Complaty, No. 7, Motgromery Blnck, -A At meet.
ng of the Board of Trusteen held April 22,1863 , an Asng of the Board of Trusteen held April 22,1863 , an As-
exament ot One Dollar and Fifty cts per slare upon the ersment on One Dollar and Fifty cts yer slate upon epital stock of sair company was levied, pay:
por betore Saturday, the $58 d$ day nif May, I86s. San Francirco, April 27, IS63. Bloon, Secretary.

## J. F. \& H. H.SCHAFER

BEDDING and FURNITURE,
Blankets, Comfortr $\cdot \mathrm{rs}$, Sheets, Etc., Etc. Nos. 504 and 506 Sansome Street,
(Near Clay,)
San Francisco.
This Fstablishment is now generally known to be the Chenest Place in the Clty for good Belding.
Branch Store....... Rroad St., Nevada.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principlos and witnessod the operation of these Pans, that they are decidedly superior for trituratiog and amalga-
mating purposes to any other in use. mating purposes to any other in ure.
The minst important principle connected with the ope-
ration of these Paus is the separation of the triturating ration of these Pans is the reparation of the triturating
process from thrt of exrracting the amalgam from the process The chier cause of loss of the previous metals arises from the passing off of the same in combination with the quicksilver, during the proces of trituration, aud in cleaning up. By the introduction of the Separating Pan
to follow the trituration this loss is entirely aroided. to follow the trituration this lose is entirely aroided. I
workiug these machinos there is no appreciable loss of guicksilver, and hevee none of the precious metals.
Dy the silue of othors on sands from the same vat, the Wheeler Paus have uniformly gained a large percentage of metals over its competitors, as well as a still larger percentage in the amount of work performed.
*** There Pans man he seen in daily operation, at the Miner's Foundry, on First atreet in this city, where alt nol6-tf ZENAS WHFRLER

PEOPLE'S
Steamship Line!
connecting California and New Xork via nicaragci.
F50 Miley Shos ter Inan any other Rovie:
The Fastand Favorito Double Engine Steamship,
MOSTHS TATME J. H. Bletben.. Commander Will be' dispatched for
SAN JUAN DEL SUR,
From Mission street Wharf,
WHODRSDAY, - . . - Jume 10, 1863 Punctually at 9 o'clock, A. M., on
Connecting at GREYTONF with the Splendid Stea mabip

## AMERICA. <br> . . 2500 Tois.

Reduced rates of Parsage nud quick trips aro secure
by the re opening of the Nicaragur Routc by the re oponing of the Nicarngun Route.
aurl safety, and every efort will be made to insure the comfort of passengera
For further
For further joformation epply to
$a 20$ No. 407 Washiugtun Street, opp. Post Office.

## The Pacific Mineral Compnay

$\mathrm{M}^{\text {AK }}$ Vopper, Silter, Tin, Nickfl, Cobalt, Zinc Lead, and Sulphurets containisg Gold.
Due account takeń of all valuablo metals combined with Silver and Copper Orcs, sad advauces made there-
Parties nwaing ubdereloped mines and desiring caplta to prospect the same will receive asfictance, ir, upou ex amination, such leads are

OFFICE, No. 1, ODD FELLOWS' HAIL,
jel-er Montgomery Street, SLu Francisco.
MARTIN \& Co.,
OFFICE-..2R4 Montgomory Streot, Up Stairs, WILL CONTRACT FOR THE

## Purchase of Copper Ores,

 Arsaying 8 por cent and upwards of Copper to the Ton We will make ADVANCIS upon Ores of COPPER, 2 INond NICKEI. add NICKEI.
sacke will he furnighefi and Freights Pa
signents if desireal by the consiquors.
Henry Martin, J. F. Greensan
New York: Sun Franciscu
Sun Francisco Post Omic3, Box 1259. je 1.

## REYNOLDS'

 Patent Cut-Off and Governor,
## FOR STEAM ENGINES.

127 of these Invaluable Machimen, ARE NOW IN USE
a California and Novnda Terratory, giving a perfectly regular motion and
Saving 20 to 65 per cent of tho Fuel.

## Steen's Improved Governor

## Is the CHEAPEST, SiAMTIRT and quickist to a

 and least liable to get sut of order of any Governor is use. It can be seen in operition at the Goldeu state Iron Sun Francisco.Clark's Steam and Fire Regulator, For controlling the Draft or Blant by npeurog the Chum-
ney or Vulve in the Blast Pipe be the pressure of the ney or Vulve in the Biast Pipe of the pressure of tho
steam in the boiler. It will reguato the pressure to a
pound on the square iuch. It cascot pound, on the square nech. It cannor get nut of order
and auy person can put one up in an hour after alio damand auy perso
per is put in.

## Ingersolls Patent Drill Press,

 can be done tour times as fust. The handle can be wo

## Fclt for Steam Boilers, Pipes, Etc..

Steam Engines, Boilers, Pipes, Hydraulle Pros
market rates.

## Anti Incrustation Pawder,

A Sure Kemedy for Seale in Steam Bnilers, without
ry to the iron. In 1 se for the part EIGHT years.
Refer to-Sugar Refnery, San Francisto,
Cottell \& Con., Sith Jose,
and 2,000 others in the United States.
E. T. STEEN Agent.

No. ${ }^{3}$ Fremont Street, San Fraucisco.
Percy Douglas,
IMPORTER OF
CROCKERY,
FRENCH CHINA,
Glass Ware, Eto, Ete.
No. 421, MONTGOMERY STREET. SAN FRANCISCO.
A. C. MORSE, Mining and Real Estate Agent, orfece-S. w. corner Pine and Siliver sts., Aurora.
HAVING MADE ARRANGEMUNTS
 and selid evor

MYERS © DAGGETT'S
Mining and Stock Exchange, No. 233: B street, Virgina city, N.T.
Mining Shocks of All Kinds Bough \& Sold.
 tion promittly aus curtiutentially attended to *** Abstracts of Titles Furuished, Elc.

## Pacific Mail Steàmship Company.

NOTICE

Aravgerevtrs have been madr
Gold, Silver and Copper Ores
can be firwardod under through Bills of Lading from San Francisco to Fugland, at reasounble rates. For further particulars upply to

> A. B. FORBES, Agent,

28-tf Corver Sacramento aud Leidsdorff strects.
P. M. STEAMSHIP COMPANY. NOTICE.

3d, 13th and 23d of each month.
When any of the above dat ofail on Sunday, the steam or will be despatched on the follnwing Minday

Wm. P. TAAFFEE, tmporter and jobber of
Staple and Fancy Dry Goods, OARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets, San Francisco.

## A. ROMAN \& Co., 

Book Fistablishment, 417 and 419 Montgomery street, san francisco.

Orders rospectfulty solicited and promptly attended to. eral and Particular Mocullirgical Opuratious, Etc.
Ditc. By Frederick Opernain.
Mnnuan of Metalurgy, or A Practicn Treatise on the Chemistry of Metale
oranda for the Une of the Mine Agrnt aud Smelter
By Jantes Phillipa and John Darlington.
Manual of Metallurgy, more particularly of the precious
metals; but includ ing such others as ace eraployed in dental practice.
Piggot on the Clemistry and Mining of Copper.
Practical Mineral Asayying aud Slining. Overman Practical Ming and Assay ying bud Brining.
Mioers' Companion and Guide, compiloil by Silversmith,
Assayers' Guide; or Practical directious to Assay ors, 3 Mi
ners and Smelters.
Practical Assaying, by Michell.
ilver Ores and Silver Bives,
Practical Assaying, by Michell.
ilver Orcs and Silver Sives, hy fro. Blako.
Ure's Dictionary of Arts, Mantucure
Ure's Dictionary of Arts. Manytneures and Mines,
Weisbach's Mechunics of Michiury and Eugineerin Weisbach's Mechunics of Mi chiumry and Eugincering
Nevillo's Hydraulic Formula Tibles. Nevillo's Hydraulic Formula Tibles.
Fresenins' Chemmal Analysis.
Together with manyother wo
and similin lines
CHooks imported to order on short notice. A. ROMAN \& Co.

417 \& 419 Montromery Street.

## To Mrining Companies.

T OR SALE-A STLAM FNGINE AND BOLLER. TH inch stroke-suhit tron frame, with heater pump-, cle,
 inches il diameter, niate nep fromi the best hree-eigo Both Eugine and Boiler are in perfect ortier and fill
traranteed. Apply to San Fraucisco, Juve 13, I863.

New Patent Agency

The Patent Agency Business,
And would invite Inventors atud Discoverers on the Fa
cific coust, who wish lishatch as well as loonomy to cal
 ton, which, tugether with our own experlence of severa yours, rendera the

Mining and Scientific Probs Ageney
The most denirable place to make application for Lelter Piatent on the lucifle crast. Ahpiy at
Ompe of thu "Minimg and Stientife Pruss," Ront
 Francisco. EWER \& SMirk.

FOREIGN PATENTS OB'LAINED By application at this office, Roum 27, Fetleral Buildug EWER \& SMITH, solicitors.

NOTICE TO INVINT'ORS.
nvehmers wivhing to fle Caveats should apply at th anlee, Room Nu. 27 , loderal Building. Terms mader
EWEK \& EMITH.

PATENT RIGHTS.
Patent Rights Hought and Sold, At the oflice of the "Mining and Ecienhific Press:" Agenes
LWER \& S Sillit.

## P. M. S.- CO.

PACIEIC MAIL STKAMSEIP COMPANY* road with the steamers of tho Atiantic and Yaeif
Steamship Compauy at Aspiawall. FOR PANAMA.

The following Stenmehips will be dispatehed in til month of May, 1868.
June 13th, - - Steamer Constitutios
June A3a, - - - Steamer Orizabi,

Will luave Fulsnm Sitreet Wharf, with Passengers ast Treasure, for Pahama
AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY, Anil connect, via Panama Rallroad, at Aspinwall, wif steamahipy for New York.
For Yreight or passage,
A. B. FORBES, Agent.

Je4 Corner of Sacramento and latitesdorit sta

## Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom, san francisco.

FVERY DFSCRIPTION OF IRON AND BRASS MACF in thn staic of Catiormin, wall ho furniohed with is bateh at the Miners ${ }^{2}$ Foundry and Machine Works, an
Steam Fugines and Boilers, Flower, Saw and Quar
mill machinery, Miniog l'umns, Amalgamators, Rotor mill maclinery, Siniog lumps, Amalgamators, Retor
Etc.,
Ete.
Particular attention will be given to the manufactu of Machinery in Sections, designed for phnees of diffic
secess. Varioun mudels of Onartz Cruthers, Amalyan inrs and Water Wheels-some in operation and oul ext
${ }^{*}{ }^{*}{ }^{*}$. Parties desiring to test their ores practically, smitll quantitics will be afforded ample facilities, free
cost.

All parties desiring arcurate and highly finished ira ings and Superinr 3fachinery, at most reasolable rai
are cordialiy invited to call befere contracting elsewhen are cordially invited to call before contracting elsewac San Franciseo, Fobruary 23, 1863.


# THE MINERS' LabORATORY.-NO. VIII. 

DW MINERS YAY FORM AN APPROXIMATITR IDRA OF THE PRRCENTAQE OF COHIEK IN THEIR ORES.
[ Miners and others will find the following, which has been aished us by a skilliul chemist, a very simphe and coliable ethod for ascertaining the percentage of copper in their fes. Parties from a distance wishing to provile themselves fith this simple appiaratus can do so lyy remitting to us the mount of $\$ 20$, free of charge, in return for which we will rward the apparatns by express.]
The following apparatus and chemicals are necessaryIx glass bottles, to hold about 8 uzs. each, the buttle must flat and wide and the grass very clear; 1 funnel; cekure of filtering paper ; apothecary balance, which will 3. about $\$ 5$; nitric acid and ammonia, of each a quart, dd about oue ounce of very thin copper wire.
Weigh out the following quantities of the copper wire, parahly :-4 grails, 3 grains, 1 grain, $1 / 2$ grain, $1 / 4$ grain, Ssolve each one by itself, in nitric ach. When dissolved fd ammonia untit it suchlls strungly. Transfer the several flutions, each one by itself, into an 8 oz . bottle as before seribed, and fill up with water ; cork tighty.
The hottle containing 4 grains, mark No. 4, the one conining 3, mark No. 3, and so on-each one representing by number, the number of grains of copper dissolved.
You have now six bottles, each coutaining a kuown quany of eopper ; the greater the amount of copper the darkthe solution is. After doing this, you have a standard Hution which will last for years, if properly kept.
When you have an ore to assay, pulverize it very fine, and ssolve 20 grains of it in nitric acid. When the whole has pen dissolved add a mmonia as above until it smells strongi. Gilter the solution and wash the residue on the filter, by lowing a litfle hot water to run through it so as to obtain jo whole of the blue solution. Transfer now, your blue umonical solution into an 8 oz bottle. If jou have not fficient of the blue solution to fill it up, do so by adding tater. When this in done, compare the colored solution so ftained, with the four standards, which we have already pseribed. If it is as dark as the one labeled No. 4 , is plain that you have 4 grains of copper in your bottle, d that is the quautity of copper in 20 grains of the orederefore your ore contains 4 multiplied by $5=20$ per cent., copper. If the solution you have obtained from the ore not su dark as that of No. 4, compare it with No. 3; if corresponds, then 20 grains of the ore contain 3 grains of ppper, or, 5 multiplied by $3=15$ per cent of copper. If it co the same color as any of the others, proceed in the mie manner. But if you find that it is darker than No. 4, four it inlo a tumbler, and mix it with an equal quantity of ater; shake it up well, fill your bottle with this reduced plution and compare it with No. 4. If it be as dark, then an have twice 4 , or 8 graias of copper in 20 graius of re, which is equal to 40 per cent of copper. If it be of a ghter color than No. 4, compare it with No. 3 ; should it smpare, then you have twice three, or 6 grs. in 20 grains of ro, which is equal to 30 per cent of copper.

If you find that your solution from 20 grains of ore be only of the same color as the ore marked, No. ${ }^{1} 4,20$ grains of your ore cuntains only $1 / 4$ of a grain of copper, which is equal to 11,4 per cent of copper.

## GLOSSARY OF MINING AND METALLURGIC TJRMS.

For convenient reference, we have prepared the annexed glossary of the technical and provinctal terms relating to the science of mining and wetallargy, which inclades most ot those in use in this country anā in books treatiug of these subjects. The fact that a great number of Cornish and German miners a e employed in our mine; rea ily accounts for the introduction of foreign, provincial words, many of which are already in fumiliar use in the Iake Superior copper region; othres are used in foreign works treating of mining and metallurgy, and have been adopted in Finglish books, when we have no word expressing exactly the same idea.
In the glossary, the letter $C$, affixed to a word significs that it is of Cornish origin; $F$, follows a term adopted from the French, and $G$, from the German language.

## glossary.

Abstrich.-(G.)-Inpure litharge obtained in the operation of separating silver from lear ores.
Abzug.-(G.) - The first, very impure litharge which is formed in the operation of cupelling argentiferous lead ores.

Adli-adit-levei- $\Lambda$ horizontal excavation or gallery through which the mine is drained. Ithe adit-level is usually commeneed from the bottom of the lowest neighboring valley, and extended through the workings of the mine.

Adventurers.-Sharehulers, or those interested in a joint mining enterprise.
Aiv-muchine.-Apparatus for ventilating a mine by withdrawing the foul air trum it, or by forcing in pure air from the sumface.

Alch.-A piece of ground left unworked near a shaft.
Altle.-Rubbish; ruck containiug too little ore to be worth working.
Aeerage stindard.-(C.)-The price per ton of the fine copper in the ore, after deducting the charge for smelting, which amounts, at Swansea, to $2 \mathscr{L} 5$ s. per tou of ore
Buch.- The back of a lode is that part of it which is nearest the surface in relation to any portion of the workings of the mine; thas the back of the level is that part of the lode which is above.
Bar.-T'erm applied in Cornwall to a vein of a different description of mineral crossing the lude or country.
Beal away.-'I'o excavate ; a term usually applied to hard ground.
Bed.-A seam or horizontal deposit of ore.
Bend.- (C.) Indurated clay; term applied by the miner to any hardened, argillaceous suhstance.
Bhark juck.-(C.)-Hende, sulphruret of zine.
Bust.-I'he air iutroduced by the blowing apparatus into
Blower.-(C.)-A smelter of ores.
boumds.- (C.)-'the limits of the ownership of a tract containing tin ore.
Brasque.-( $F$.-A lining of closely-beaten charcoal, or other carbonaceous suhstance.
Brunch.-A small vein which strikes out from the main lode, or branches from it.
Biood-Tmpurities mixed with the ores.
Broil.- The traces of the pre-ence of a lode found in the

## loose matter at or near the curface.

Buchers.-Men who break or bruise tho ore.

Buddling.-Separating the ores from the mixture of earthy substances by weans of a wooden frame of cistern fil ed with water.

## Bunclo-A small quantity of ore in a compact mass in the

 vein.
## Cal.(C.)-Wolfram ; tungstate of iron aud manganese.

Cand.- (C.)-Fluor-spar.
(aptain-- -uperinte dent of a mine.
Consuter (on contra) lode.-A lode forming an angle with Chermpion lodection of the other lodes in its viciuity.
Champlon lode.- The priscipal lode of a mine.
Cluck:- The valve of a pump of any kind.
Cob.-To break up the ore with hamners, so as to sort at the valuable portion of it.
Cockle.-Schorl, or black tourmaline.
Coffin.--Old workings open to the day.
Cumb.--'The arrangement of the mineral contents of the lode in parallel, crystalline masses.
Cost-bonte system. The method of working n mine according to certain regulation as, by which the adventurers may at any time "sign off," and ceuse to be liable for any further expenditure in proving the mine. The plan is to insert in the "cost-book" the name and address of each of the adventurers who first work the mine, with all the subsequent transfers of shares, and every expense attached to the undertaking ; a meeting of the proprietors is held every two months, at which the purser presents his accounis, made up to that period, and the share-holders are thus cnabled to judge of the state of the undertaking before incurring any further liabilities.
Country.-The strata or rock which the vein traverses; he rock in the neighborhood of the vein.
Course. -The direction of the vein.
Cross course.-A lode or vein which intersects anotherat considerable angle, and which frequently throws the first cut of its course.
Cioss-course sprur.-(C.)-Radiated quartz.
Cross cut.-A level driven at right angles with another to tersect the lode.
Crop. - The best ore.
Crop out.- To come to the aurface; referring to strata.
Cius.h-To prind the wres without water Crus.7-To grind the ures without water.
Cut- 'To intersect by drivilg or siuking.
Costerning.-Discovering the situation of a lode by sinking pits in its vicinity, and driving transversely to intersect

Cofering. - Securing the shaft from the influx of water by ramning clay, de... alound the sides of the timber.
Dam.-(C.)-Choke damp; foul air.
Drarlinge.- (G.)-Residue of copper in the process of separating silver from copper in the liquidation process.
Derd-work.-Work where the vein is not productive, or Dork which is done without obtaining any ore.
Deads.-Rubbish ; attle ; veinstone barren of ore.
Deads.- Rubbish ; attle ; veinstone barren of ore.
Dialling.-Mining engineering ; surveying within a mine.
Dish. - (C. - 'That portion of the produce of a mine paid rent to the owner or lard.
Dissueing.-Breaking down the strata from one of the wal s of a rich and narrow vein, so that it can afterwards be taken down without loss or waste.

Dropper:-A branch which leaves the main lode.
Driving.-Excavating in a horizontal direction ; opposed sinking or excavating in a vert cal direction.
D. ift.-Morizoutal excavation

Dress.-To clean the ore hy breaking off fragments of the gangue from the valuable ore.
Eilvans.(0.)-Dikes of graniter and feldspar; porphyritic clis cutting the slates and granites of Cornwall.
Engine-shinfl. The shaft by which the water is drawar from the lowest portion of the mine.
Feeder.-A branch falling mito the main lode.
Faull.- A sudden interruption of the continuity of strata
in the same plane, accompanied by a crack or fissure of width varying from a mere liue to several feet.

F'luccun--Decomposed, clayey matter, accompraying th slides and cross-courses, and sometimes the lode itself.

Foot-uacll.-The wall on the lower side of the lode.
Gengue.-The now-metalliferous portion of the lode; the mineral substances accompanying the ore.

Gad.-A pointed wedge of a peculiar form, having its aides of a parallel figure.

G*ark upfer ( $G$ ) -Refined copper.
Gliso - (0.)-Mica.
Good levels.-Nearly horizontal levels.
Gossam-Oxide of iror, intermixed with quartz, general ly found near the surfice, in the lode or accompanying it.

Grass.-The surface ; the open air.
Growan.-(C.)-Decomposed granite.
Ground.-Tha rock which is adjacent to the lode; the strata in which the lode ocenrs.
Gulph of ove.-A very lagre deposit of ore in the lode.
Hanging-wall-The wall or side above the lode, in con-tra-distinction to the foot-wall.

Heave. The horizontal dislocation which occurs when one lode is intersected by another having a different direction.

Horse. -The deat ground between two branches of a lode. Joggling-table.-Itelined board, and which is made to move with a sudden and quack motion, used in washing the the ores.
Jig.-To separate the nre with a riddle wire-bottomed sieve, the heavier substance sinking to the bottom of the sieve.
Sieve.
Junction.-Point where two veins, or different rocks, unite.

Keeve.-A large vat.
Kibble--The bucket in which the ore and attle are sent to the surface.

Killos.-(C.)-Clay slate.
Kupfer-stein.-(G.)-Regulus from coppery-lead ores twice roasted.

Lander.- The man who attends at the mouth of the shatt to receive the ores as they are sent to the surface.
Leader:-A hranch of the main vein.
Levels.-Galleries driven on the lode at various depths, generally at intervals of ten fathoms.
Liflers.-Wooden beams to which the stamp-hends are fastened.

Lode.-Regular vein producing ore.
Loupe.- ( $F$.) Bloom, from the puddling furnace.
Matte.- $\left(F^{r}\right)$-Regulus, melted sulphuret.
Mock leud.-Blende, sulphuret of zinc.
Moor slone - (O.) -Granite.
Mundic.-(0.) -Iron pyrites.
Necdle.-A loug, taperng piece of copper used in tamping the hole for blasting, in order to leave a cavity for inserting the safety-fuse.

Pack.-Gang, or party of men.
Parcel. - A heap of ore ready for sale.
$\boldsymbol{P a s s . - A n ~ o p e n i n g ~ l e f t ~ f o r ~ l e t t i n g ~ d o w n ~ s t u f f ~ t o ~ t h e ~ l e v - ~}$ el.
$P$ each-(O.)-Chlorite.
Pick.-A common instru
Pick.-A common instrument for mining and agricultur-
purnoses.
al purposes.
wall. wall.
Pitman.- One employed to look after the lifts of pumps
and the drainage. and the drainage.
Pit-work.-The
Pit-work. The pumps and other apparatus of the en-gine-shaft.
Point of the horse.-The point where the lode splits or divides into two parts.
Pot-grown.-(C.)-Soft decomposed granite.
Prian.-(C.)-Soft, white clay, esteemed in Cornwall a favorable sign, when found near a lode.
Rack.-An inclined frume on which ores are washed.
Reddle.-A sieve for washing the ores.
Rosette.-(F.)-Dish of refined copper taken off from the
surface by throwing on cold water.
Run of a lode.-Its direction.
Sralband.-(G.) -Plural sacilbander, selvages, or thin bands of earthy matter, generally argillaceous, on each side of the vein next the wall-rock.

Selt.-The portion of ground taken on lease for mining purposes.

Schlich.-(G.)-Finely pulverized ore mud.
Slag.-Sillicious substances formed in the various processes of smelting and refining, principally silicates of the protoxide of iron, alumina, lime, and magnesia, generally containing a small portion of various metalic substances.

Shaft.-A vertical or inclined excavation in the lode or through the country.
Spleissof en.- $(G$.$) -Copper refining furnace with two re$ ceivers for the fused metal.
Shears - Apparatus for raising or lowering heavy articlea in the shaft.

Shelf.-The solid rock.
Sholing.-Tracing the situation of a lode hy means of the loose masses of ore and veinestone which have been separated from it and scattered in its neighborhood.

Shooting.--Blasting with gunpowder.
Shooting.--Blasting with gunpowder.
Sinking.--Excavating downwards in the shaft,

Slicle.-A vertical dislocation of the lode.
Slickensides.-Pulished, argillaceans surfaces of the rock, caused by the rubbing and griuding of large masses arainst each otler.
Stockwer-k.-(G.)-An assemblage of small irregular strmgs of ore, which has no regular form like a true vein, but in which the ore seems to have been disseminated thro' the fissures in the rocks.
Slimes.-Metallic ores mixed with finely-comminuted par ticles of the rock.
Smell.- The reduction of metals from their ores by the aid of heat, in the usual metallurgic treatiment in the large way, is called smelting.
Suller:- The small platform at the ond of a certain uumber of ladders.

Spulling.-Breaking up the rock into small pieces for the
purpose of separating the ore.
Stamp.- 'l'o break up the ore and gangue by machinery, with the aid of mater, for the purpose of washing out the hea vier matallic particles.
Stamp-head-The iron end of the beam which by its weight breaks the fragments of ore in the process of stamp ing.
Stope.-To excavate the space between two levels by a succession of step-like workings.
String.-A small voin.
Stuff-Attle, or rubbish.
Sump.-The bottom of the engine-shaft, into which the water is allowed to run, and from which it is pumped or remored by some other means.

Trecke.-The windlass, rope, and kihble.
Tamping.--The substance with which the hole in blasting is filled after the charge of powder has been introduced; also, the proccess of fillisg the hole is called tamping.

Thrown.-A lode is said to be thrown up or down when it is intersected by a slide by which a portion of the lode has been removed from its original positiou to one side or the oth $r$.

Ticketings.-(C.)-The weekly public sales of ore.
Iribute.-The system of working by tribute is that under which the workman receives a certain proportion of the ore which he raises as a return for his labor.
Trunk.-A long narrow inclined box, in which the separation of the finely-washed ore from the earthy impurities is effected.

Tunnel-head.-The top of a furnace, where the materials are put in.

Tut-work.-Work in which the laborer is paid in proportion to the amount done-generally at so much per fathom in driving or sinking.

Tuyere.-Pipe throagh which the blast is introduced into the furnace.
Underlie.-The dip or deviation of a vein or bed from he perpendicular.
Van. To cleanse a small portion of ore by washing away the earthy matter, by the aid of a shovel or some similar implement.

Vein.-The contents of a fissure in the rocks, of indefinite length and depth.

Vug.-(C.) A cavity in the vein, generally lined with rystals.
Wall.-The side of the rocks adjacent to the vein.
Washing-1'he process of separating the ore from the earthy impurities by the aid of water, the paricles of ore and earthy matter arranging themselves in different positions according to their different specific gravities.

Whim.-A machine consisting of a drum revolving vertically by horse, steam, or water power, by which, with the aid of a rope and pulley, the ores are raised from the bottom of the mine.

Whim-shafl.-The shaft through which the ore is raised
Whip and derry:-The simplest method of raising the kibble by means of a single pulley; the kibble is attached to a rope, which is drawn by a horse.
Winze. - A shaft sunk from one level to another, for ventilation, or for proving the vein. A winze differs from a shaft in not being open to the surface, like the latter.

A Valuable Remedy.-The Boston Cullivator says: "Every family should keep a small quantity of chlorate of potash, (but with great care, as it is one of the most explosive salts known, burning with great heat. Especial care should be had not to allow it to become mixed with dust or charcoal or sulphur, and it should nut be exposed to friction.) We have never found anything equal to it for an ulcerated sore throat. Dissolve a small teaspoonful of it in a tumbler of water ; and then occasionally take a teaspoonful of the solution, so as to gargle the throat. It is nearly tasteless and not at all offensive to take; hence it is woll adapted to children.
Nothing is better than this for chapped or cracked hands. Wash them in a weak sulution, and they will soon be well. it is also good for a rough, pimply, or chapped face. It may be had at any druggists's,

## A SCHOOL OF MINES.

Some months since we prepared several articles for the Press upon the necessity of the establishment of a "School of Mines" at some point on the Pacific Coast. The ouly paper that seconded our efforts in that direction, so iar as'to even allude to such a project, was the Washoe Times, edited bs Gen. Allen, a gentleman of an enliurged aud comprehensive mind, who seems fully to understand our necessities in this particular. Some recent editorial remurks in the Times have brought out a communication to that paper upon the subject from which we exract as follows :
"I would respectfully suggest that such an institution as a 'school of mives,' should be conducted upon the most liheral and extensive scale practicable, in order to make its utility appreciable to the community at large." The vast utility of such an mstitution as this, if properly conducted,
must be of equal benefit to the mill owner and the miner; as the miner. for instance, often finds rock, of the quality of which he is in entire ignorance; this he would bring to the "chool of mines," where he could learn whether it were worth his time and labor to prospectit. The mill owner re ceives rock to reduce, with the quality of which he is nut fomiltar; he would accordingly go to the 'school of mines, where he could not only be informed of the character of the
material. but also the best way of treatime the same to the most profitable results. Such an institution shonld must certainty commend itself to all classes of society, buth in this Peritory, Califurnia, and all thuse interested in the velopment of the mineral resources of this western p at least. It would be idle to expaciate upon the details of so importaut a step as the one you have proposed, until it is seen how the public will appreciate your most valuable suggestion. It is strange that this mineral portion of the continent should have blundered on so long without an in stitation of this kind, which muștat once suggest its portance to even the least reflective mind.
We have a vast country around us, and travel on whichever point of the compass you may, you find a country charged to repletion with mineral wealth, which only requires talent and industry to develope. It is a subject of the mos vital inportance that labor should not be uselessly applied and that there should be some guiding power that the miner could bave immediate access to, which would direct his course, and frum which he could ascertain the prabability of the results of his hard work. 'There is no institution, in a society constituted as this might be, that could hare so large a field of usefulness, and one whose influences would be more generally beneficial to all portions of society as the one jou have suggested. The capitalist would recpive as much benefit as the poorest member of society; he would be able to inform himself as to the nature and value of the minerul for the development of which he was called upon to advance his money, aud thereby lessen his risk. The miner would know what he was likely to expect from the labor he was bestowing upon his discoveries. The mill owner would
be in no doubt as to the treatment of the various ores that might be brought to him for reduction. We should cease to hear of any one saving their tailings for the purpose of reworking them, and subjects that appear now blindly speculative would, hy the aid of such an institution, be made profitable to the whole comraunity.
Wishing your effurts in this direction every seccess that this vastly impurtant subject demands and deserves, and at the same time not wishing to be placed prominently forward, but willing to afford all the aid my poor ability can in its promotion, and anxious to co-operate with any other gentlemen who may be of the same way of thinking as myself, I remain

Yours, respectfully,

## CAVITJES IN PRECIOUS STONES.

The Philosophical Magazine fornishes an exceedingly intaiesting paper by Sir D. Brewster, on cavities ubs ervable, by microscopic power, in diamonds, topaz and beryl. Several years ago the learned author discoverd in these cavities two new fluids of different density. One of these, named cryptoline, is fixed and oily; the other Brewstoline, is volatile.
From the several curious observations and facts recorded in that paper we extract the following:
"In the Koh-i-noor diamond, which the Prinee Consort kindly permitted me to examine in 1852, I found three black specks, scarcely visib'e to the eye, but which the microscope showed to be irregular cavities, surrounded with sectors of polarized light. In the two smaller diamonds, which accompanied the Koh-i-noor, there were also several cavities surrounded with luminous sectors, and the same polarizing strua ture which indicated the operation of compressing and dila. ting forces. In order to obtain more information on thie subject, I examined neurly 50 diamonds lent me by Messrs. Hunt \& Roskell, and in almost all of them I fuond numbers of cavities of the most singular forms, round which the sub-
itamee of the stone had been compressed and altered in a
etmarkub'e manner. Thu shup of the cavities sommtimes entuarmbled those of insects and lubsters, and the streaks and mateless of culor in pularized light were of the must variegated

In exumining a large number of diamonds, which thorn emne of the ariental oljjects in the East India Co's Mu eum. I found that all these sfones contained large cavities, fad were course or flawed diamonds, which could not be cut atu briltiants, or used in rugs, or other ornaments. It see, ma, indeed, to be a general truth, that there are comparativehy few diamonds without cavities and flaws,and that this mineral is a fouler stone than any other used in jewellery. Some diamonds, indeed, derive their black color entirely from the number of cavities which they contain, and which will nut permit any light to pass between them." Further on he says: "The discovery of pressure cavities in topaz and hianonds may be considered as completing the evidence for the irneonts or gin of these miuerals, and of the rocks which, continin them. we know that ga- in a state of compression ex. istg in mine nls.* * * * The gas in these cavities, being exposed to changes of temperature while the substauce is still in a plastic sate, compresses it and gives it chat variation of density which produces four luminous secturs in polarzed light.

## LAKE SUPERIOR COPPER.

The Copper mines of LakeSinperior were first bronght iuto public notice in 1845 , when speculation was rife in all that spur of the Porcupine mountains on the sonth shore of Superior, extendiug far into tho lake, having for its base a line drawn across L'Arse Bay to Ontonagon. This was theu the Northern Eldorado. In this year operations were commenced at the Minnesota mine which is about fifteen miles backof Ontonagon. The first large mass of native copper wrighing abont seven tons, was found in a a pit dug by the original lorls of the eoil. It is now only fourteen years since this mine was opened. At that time the rapids in the Sault St Marie prevented the passage of vesse's from the lower lakes and the adventurers that sought out this new Eldorado had runny obstacles to overcome. 'Ibe country was then covered by a vast wilderness, without inhabitants, except a few Indians. All supplies wire brought from the lower lakes, then had to be passed over the Portage at St Mary, and thence carried in frail vessels coasting to the westward hundreds of miles to the copper regin 118 , and then carried on the back of man and beast to the supposed places of the copper deposit. Wivery stroke of the pick was made at a cost ten fold more than in a populated district, every disaster delayed operatious for weeks and even months.
The opening of the St. Mary canal, in 1856, has produced a wondrous change in all of this wlderness region. The fonly settlements on phe souh shore of the lake at the present time are Marquette, Portage Lake, Ontonagon, Copper Harbor, Eagle Harbor, Eagle River, and the adjacent mines, -all else is a vast wilderness without sign of human habitation.

The Copper region is divided into the three districts of Ontonagon, Keewenaw Foint and Portage Lake. Since 1845, 120 Coppar Mining Companies have been organized under the general Law of Michigan, more than six millions of dollax: have been expended in explorations and mining improvements. The Minnesota Cliff mines have declared and paid over two millions of dollars in dividends since the organiza tion and working of these companies.

Until 1860 all the Copper of Lake Superior mines was smelted at Detroit, Cleveland and Boston. Since which time a Boston company have erected smelting works at Portage Lake Superior, while some Copper ore has been shipped to Liverpool and smelted there.

## TO MINERS AND•PROSPECTORS.

In view of the frequent accidental discoveries of valuable mineral deposits, other than gold, in almost every section of the State, which bave of late been made, it is but reasonable to suppose that prospecting even in California, has but just commenced. The simplest and most universal of all metaliferous deposits is gold. It rarely occurs is any other form than that of "free gold" which is readily discernable to the maked eye. An examination of any rock ur earth for gold is an extremely simple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a
pan is an invariable te-t. If in rock of any description thal rock poundel fine in a mortar and washed, in the same manner as alluvinm, will naw ily expose its grold to the oa ked eye, if there is any there in paying quatity. The only axceptions, are where the gold is contained in iron pyrites, ropper pyrites containing also iron. In cither of the two latter cases the presence of gold may be readity ascertained by placing the prrites in any suitable ressel and keeping the contents at a noderate heat for from four to six hours, with frequent stirrings, by which means the sulphur will be evaporated, and the copper, if any is present, chang ed to a dull red color, and the gold retaining its natural ap pearance, on subjecting the whole to the usual panning process, may be readily seen by the naked eye.
Not so with othermetals. Silver, copper, zinc, nickel and many others appear in such a great variety of metallifirous forms as generally to defy all but the most practical and srientific eys. No description of these ores can be written which will afford any very important aid to the illexperienced in making explorations. Atter reading descriptions, however, and carefully examining the specimens described, the explorer may go out and search with nome degree of confidence and intelligence. A study of the characteristics of the sulphuret ores alone, would lead an explorer to pass over, entirely unnoticed, the rehest varieties of the ores known as Chlorides or Horn Silver, whieh, from the facility with which they may be worked, and their usual richuess, are generally considered the most valuable of silver ores. There is much reason to believe that this variety of silver ore will be extensively found in all the volcanic regions of this State. So with many other ores.
Considering the great difficulty, in the present lack of cabinet collections, and other means of instruction, to acquive a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our mineral resources, we hereby make the offer to miners, prospectors and all others, who in "their travels or explorations mнy come acruss specimens having the appearance of rarity or value, to carefu'ly examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. We have already been called opon in many such cases, and we shall at all times be willing to give our atteation to any such requests which may be presented to us.
In carrying out the plan we propose, every miner and prospector should be at all times on the lookout for any new mineral. Tne ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at ance be given to it. There is scarcely a piece of quartz or rock of a quartzoze nature, which presents any uucommon anpearance in texture or color that has not been this modified by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place," and if the cause of its peculiarity is not evident and readily seen, it should not be passed carelessly by. There may be value in it, although the gold may not shine there. We shall commence in our gext issue a series of articles describing as accurately and as intelligibly as possible all the ordinary mineral substances which may be likely to come under the notio of the California prospector. These articles will be published under the head of "The Miner's Laboratory," and will be found of great value to the mining public. [Miring and Scientific Press, April 20.

Subscribe.-Are you a miner and not a subscriber to the Mining and Scientific Press? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bonght from the shelves of any bookstore in the country for the price of several year's sabscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no papre that will be read with so much eagerness by them, or one that will conves to them so full an account of the real industry of the country as the Min-
ino and Scientific Press. We invite all to send us their names and four dollur's, or liro dullur: for six months, and become patrons of the ouly mining paper printed on the Pa cific const. Those who receive a phuer with this paragraph marked may understand that it is cent to them for examination, and with the hope that it may so for mect with their approval as to wurrant their sulsseribing for it at once. It is not our usual custom to receive a subseriber for less than six months; but inasmuch as we aro anxious to introduce the paper where it is not now known, we will, fur the present, send the Press for three monthe even, on the rece'pt of one dollar, in coin or stanps. It is our belief that no one will wish to discontue the paper after being a constant reador of it for even that short period.

## mining and scientific press.

THE ONLT MINING, MECHANICL AND SCLENTIFYC PAPER ON THIS CONTINENT.
THIRD TEAR: VOUUME VI.-NEW EERJF!
A new volume of this extenamely circulated paper commenced Sunt. 11 ,
1862. It is intended that esrry number shall be raplete with infermation 1862. It is intended that esery number khall be replete with infermation
concerning Mining, Ncientic, Mechamral and Industrial pursuits, together
 for its columulnus,
This niper is devated to the nhove purposen, together with of Science, Arts, Agriculture and Compherce, tathe any wineral informatiou that may be of inturest to the reader : and it is the intention of the promirietor tospare no pains or expense in makime it equal in interest and valuable
information to any papur yet publinhed The Mining Interest!
Will find it of grant value, as it will contain all the news anpertainiug to Mining, the prices aud sales of Mining Stocks, new inventionk of Machinery
adipeet to tiat purposo, and of everythng fenerally that muy be of service to the Miner.

## The Inventor !

Will find it an excellent medum for the nurnise of bringing his invention into notice, of ascertaining the progress of inseation in this ant other countries.and alao of recejving any information that may be uecessary
in obtaing his pateut, the aroprictor having had great experience as in obthining his pateut, the proprictor having had great expericnce as a
Patent Agent, together witl facilities at Washiugton that evable hlan to ob ain Patente with dispatch.

## The Mechanic and Manufactuser !

Will be greatly bencfited by its perusal, as cach number will contan sera eral original engravings of new machines and inventions, together withy
large atmount of reading matter appertaining thereto. Wie are constantle large atmount of reading matter appertaining thereto. We are constantle
receiving the best scientife jnurnals frum all quarters, from whicls wr shall coutinue to extract whatever may be of benefit or interest to ou-

To Chemists, Archilects, Millurights and Farmers ! This journal will be invaluable. All new discoverics in Chemistry will be given, and $n$ large amnuut of information of great service to Architects and
Millwrights will be fomad in our columns. The Farmers and Plantes Millwrights will be found in our columns. The Farmers and Plantese will
not bo neglected, engravings will be given of agricultornl inuplements, not bo neglectud, engravings will be given of agricultural inplements, and
the farming interest generally will beamply dibcussed. Terms.
To mall subscribers :-Four Dollars per anoum
Club Rates.
Five Copies for Six Montlis, $\$ 8$.
Ten Copies for Six Months, \$16.
Fifteon Copies for Twelve Mhouths, $\mathbf{3} 44$.
Twenty Copies for Twelve Jonths, $\$ 56$.
For all cluhs of Twenty and over, the yenriy subscrintion is only $\$ 280$
Names can be sent in at different times and from different Post-offices Names can be sent in at different times and from different Post-offices CWER \& SMITHH, Pablishex

I S Court Building, Corner tery strzets, San Francisco.

## To Printers.

An Intrasest in one of the most flourasbing and best phying Newspa per Omtes in the mountains is nttored for sale on casy terms. A rare op per ontuces is the mountains is nitored for sale ou casy terms. A rare op self iu a good business in orie of the healthiest, most thriving and delight ful mountain towns iu the stato. For further information enquiro at this oflice

For parting silver from gold when gold
is below $300-1000$ ths. Gine .............. 3cts per oz. from $30-100$ ths. $10750-1000$ ths fine. $7 \mathrm{cts}^{\text {s }}$ " oz . $750-1000$ ths to $950-100$ ths " 14 cts
Depostts Su,ver Bullion-Purchasfs.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained for coinage.
Refining charges (only where gold is contained) proportion of goid 1 to 300 3cts. per oz. gross weight

## 301 " 500 , 7ets,

Deposits for Fine Bars
\$1 16-4-11 ths cents. per standard ounce, $1 / 2$ per ct. grass value of silver for making bars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bars Sold From Refinery.
$\$ 121 \mathrm{cts}$. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Depostrad for Dollars.
\$I 16-4-11ths. per standard oz. $1 / \frac{1}{2}$ per ct. gross value for coining, when gold is contained, refining charge the same $\mathrm{us}^{-}$ in purchases.

Deposited for Imported Bars.
\$1 16-4-11ths. cents per stavdard oz. $1 / 2$ per ct. gröss value of deposit for making bars.

## GIFFARD'S INJECTOR.

No modern improvement has excited more general attention anong engineers than Giffurd's Injector. for supplying boilers with feed water, without using a force pump. Although simple in construction, it is apparently inexplicable in its operation, leadiug the observer to infer that its dis covery must have been accidental. It was however the result of scientific investigation by M. Hemry Giffard of Paris, who enunciated its theory in 1800. eight years before its introduction into practical use, and again, in a recent work in the French language, has fully illustrated the principles of its manulactnre and application. Various explanations of the Injector have been published, but usually with an array of mathematical fornulæ, which, to many practical engineers, are more mysterious than the instrument itself. Those who des re an alyebraic analysis will find the same in the Journal of the Franklin Institute for May, 1860; but inasuuch as the principle is simple, we present an explanation without mathematical formule, by aid of au illustration.
'lake a boiler under pressure of steam of 100 tbs . per square inch, with an orific one inch in diameter, opening from the steam space. 'Ihe steam would rush out of that opening at a very high velocity, sixteen times faster than water would issue from an opening lower down in the boiler. This we know from established rules. If the issuing s'eam, at the moment of its exit, could by some means be instantly condensed, it would become a jet of wat wof one four hof an inch in diameter; but still possessing the same high velocity. Now suppose that below the water line we make an opening, one-fourth of an inch in diameter, from which there will is-ue a jet of water; and fur her let us conduct th former condensed jet by a pige so that the two jets will play against each other; it is plain that the condensed jet will stop the other and penetrate into the boiler; because it moves sixteen times faster than its opponent.

This is aualagous to what jccurs in the operation of the Injector: the steam issuing from the muzzle of the perforated tabe, being condensud by contact with the cold water, becomes a jet of water of high velocity, which would pedetrate into the boiler as above illustrated, with this difference only-that, in the act of condensation, the condensed jet combines with the water that surrounds it, and carries it along the feed pipe into the boiler. The velocity of the compound jet is of course much less than that of the simple condens d jet, but there is still a large margin of force in favor of its entrance in the boiler.

We are not aware of the exact utmost excess of force in the Injector jet, but we know by experiment that an Injector, taking steam from a boiler at 60 tos., will force water into another boiler at 98 ths. pressure.
I'his valuable-invention is in extensive use in Europe and the Atlantic States, and during the past two years, in its introduction on the Pacific Coast, has met with the approbation of our ongincers, in all cases.

## THE NORTHERN MINES.

The Dalles Mountaneer of late date says . that the reports from all purts of the mines of that section, are most cheering. The resident population has been pretty thor oughly sifted of its chaff and those who remain are workers. The adventurers whe never rest easy, and who always expect to make a 'pile,' but never do, have left. The mining season has fairly opened in all parts of the country. In some districts the snow has not entirely disuppeared, but operations are going on in spite of obstructions. The gold crop will be much larger than that of any previous season; and promises to rival Califurnia in her parmest days. Ditches have been dug and water has been brought to loculities that heretotore have been destitute of that necessary article. This has been particularly the case at Auburn, Oro Fino, Elk City, and Florence, from each of which places it is confilently believed there will be a steady stream of gold. At Auburn, the supply of water, as has been stated by a correspondent, is still limited, and by no means adequate to the wants of the m ners, but despite this obstacle, Powder River will show a large gold yield the present shasob. At Flk City and O.o Fino, they will have water for ground sluiciug or hydraulic opprations, and in that way claims that have hitherto been uuproductive, will be
made to yiell largely. At Canyon City, one of the richest nuining districts in the whrle Northern country, the facilities for procurng water have been grently improved, and it is estimated that he yi Id from that lucality alone will be many thousand dullars. These mines paid well the short time they were worked last season, and with improved facilities there is every reason to believe that they will mure than realize the expectations of those who have been most sanguine as to therr richness. The great drawnack to the prosperity of the mi ing districts has been the restless character of the population. Too mach time has been spent in prospecting, and too little industry applied to the working of the clains.

## GOLDBEARING SULPHURETS, AGAIN.

Mr. Editor:-'The correspondent of the Washoe Iimes, Whom you quote in your pıper of the lith instant; pretty frecly coudumms certain processes for treating sulphurets. They du not come up to his "ideas." These, he suys, he merely iotroduced in a serres of papers; but his deseription of his own plan learts some to ask, "Can it be anything more than an ider?"
He separates iron from sulphur and fixes oxygen on the irou in the press nce of sulphur and of arsenic, which remains uualtered. At what temperature is this possible ? Perhaps he never thught of this; for heat seems to be a stumblusbluck throngloun his calculations. To prove the luss of ailver volatilized ta rousting sulphurets, he experiments at a white heat!
I this writer ever roctsted at a white heat, his ideas of the loss he incurred are duubitess of weight.
Again, according to his "ideas" "sulphurated, arsenicated hydroga" passes to "flour of arsenic" on reaching air.
Is this effected at a low temperature? if so, what is "sulphurated, arsenicated hydrogen"? Is it like "sulphurous acid contaiued in the ore"-ready made?

As a writer, this correspondent can make much of little ; as a roater he might neglect the silrer and arvid the arsenic. Where is the gold? Is there little, where there where there should be much?
Your's, \&c., d Poor Chemist.

Errata.-In an article headed "Theatrical'," on the 5 th page of uur last issue, "'he singing is of the firss-class character, with the solitary exception, perhaps, of a litule too much instrumental accompanyment," should have read, "The singiug is of first-class character", with the solitan'y exception, purhaps, of a little too much instrumental accompaniment."

Mining Glossary.- We devote a large space, in our columns today, to a very carefully prepared, and very full miniog glossary. We extract it from Foster and Whituey's Report apon the Lake Superion Copper Mines. It will be found very valuable, to all miners, for occasional reference, and occupies a legitumate position in our "Miner's Laburaturg."

Correction.-In our issue of last week we alluded to the Stone Breaking Machine, at the foot of Market Street, in this city, as the one known as "Blake's Stone Breaker." We wrote fron hearsay, but have siuce examined the same, and fi dit is something of very different construction, but an excellent machine for the purpose to which it is applied. The machine is mauufuctured in this city at the Pacific Foundry, by Goddard \& Co. We slall notice it more fully, at some future time.
We were also in error with regard to the Foundry where the "Young America Quartz Crusher" can be obtained. Thit machine is also made at the Pacific Foundry, where several may now be seen, which have been constructed for a Mine in Mexico.

Remotal.-J.C. E. Kleyzig, \& Co., have removed from their old stand on Battery street, to 733 Washington street, wear Kearny. - Sportsmen and others requiring anything is their line will do well to give them a call. See advertisement.

## THE MINING SHARE MARKET.

There has been some improvement iu the Mining Share Mrrket during the pist week, produced by favorable reports from several learling mines. A fair amount of husiness has been transacted and some little excitement experienced. The disposition to sell on the part of those who hold stuek of intrinsic ralue, is constantly diminishing, and so far as They are able, ali such are regurarly paying up their assesements, anid closely watching the development of their mines. Mming operations, on Montgemery Street, are fast becoming a legitimate business.
Gould \& Curry, which opened the week at $\$ 5500$, has graduillyadranced to $\$ 6100$. I'welve shares have been soll at the 'atter figure. This important advance has heen produced by inforuntion from the mine, that in a tusnel 200 feet lower thau the mine has h.therto bren worked, a fifteen foot ledge has been struck, averaging $\$ 500$ to the ton.
Ophir shares have also materially improved during the weok, and are now quoted at $\$ 2400$, with cousiderable sales and more enquiry.
Savage was quuted on Saturday at $\$ 4000$, an advance of \$1200 during the week. A harge number of transactions in these shares were reported during the w oek, at gradually advancing rates.
Chollar, has had an even Market, with small transactions. Potosi, sold at $\$ 460$; no new features.
Wide West has attracted some attention, during the week, 251 slares having cilanyed hands at $\$ 175$ (4) $\$ 216$. the copper interest.
We have nothing new, of special interest, from Copper opolis during the last six days. The Union cluim has thre shafts sunk to a considerable depth, from each of which theg are laking large quantitics of rich paying ore. At each the eshafts is a steam engine for hoisting the rock. Imi mense pi'es of what is called number three are lying at eacl of the shafts-too poor for transportation until it is reduc ed. It is estimated that there is more than $\$ 100,000$ worti of this number three rock now on the sarface of the Union claim.
The Keystone is now under the working direction of somi skilful and energetic copper miners, who intend to prose cute operations with enerry. We learn that 1,000 work men will probably soua be employed at this mine.
The Oriental, in Amador County, have thns far expender ouly about $\$ 1200$ upon their lead, and yet they have abou $\$ 5000$ worth of ve upon the ground, and are seventy fee deep upon their mine. The Company is out of debt, ; small, and there is none of its stock in the market.
The mines of EI Durado, Placer, and Nevada, are stil progressing, althongh we have not yet heard of any shipments of ore from that direction.
The Humbolat Register says: "The Sheba mill continuel concentrating rock for shipment. Thursday, three six-mule teams started with concentrated rock to be shipped fron San Frauciseo to Enyland."

Indorated Plaster.-Objects in plaster of Paris may bi rendered like marble by coa ing them one or more times a: may be necessary, with a liquid prepared as fullows: -2 pts of stearine and 2 pts. of Venitian soap, are mixed with 200 30 pts . of cold solution of cuastic potasea; andafter a half hour's, ebulition, l pt. of pearlash is added and the heat

More Mines.-New and rich gold and silver mines bave been recently discovered in the vicinity of Carsou City -a region where the precious metal has not been fou id hitherto. continued for a few ininuits: Cold ley in sufficient quautit; to produce perfect fluidity is then stirred in, and the liquir set aside for several days under cover.

Lost !-A Silver, Lever Watoh, hunting case, suppose to hare been lost on Bush Street; the finder will be suita bly rewarded by leaving it at this office.

Wanted.-A full set of Patent Office Reports (Mechaical Inquire at this Office.

Firt gron Irfise: River--Wells, Fargo \& Co. mado their
first shipment of imalion from Austin, locuse Kiver, un June 1hth. It was twenty pounds, the $r$ tsult of one wection work in a stuall arustra.

## GENERAL MLINING STOCK REPORT.

REPORT OF BIDS
At the San Franchaco Mining stock Board,
For the wevk ending Juae 20, 1863.


## 




REMARKS.
The Tirginia Market has beeu exceedingly dull since the date of our last refe ence, and except upon the Main, or Comstock range, there has heen something of a decline, as will be observed by our quotations. Prospecting, however, is progressing energetically, and very encouraging developments are beiug made on what may be denominated outside ledges.
In Gold Hill stocks, much more feeling is manifested, and a very general advance is occurring. During the past two months, developments of a very satisfactory character have been mude in this district; nor are they confined to the "main range." The back ledges are beginning to yield with
fair promise. But along the "main range," and the three ledges canstituting it, $d$ :seoveries are daily being made giving rise to the wildest predictions. The ledge upon which the Belcher is located, is indisputably one of the very richest in the Territory. It is the ledge lying east of the Crown Point vein. Notwithstanding the occupancy of the same ground by the Koh-i-noor, the Brlcher is held firmly at the advanced quotations given. This same rich vein runs, it is presumed, through the Leon, and has been struckiu the claims of Guld Hill proper, the Princess and the Bullion. This ledge is, without the shadow of a reasonable doubt, entirely distiuct from the back 1 dge. That they are one, is the theory upon which are based the suits between the Yel-Koh-i-noor. We refer the reader to our figures for further information.

## ESMERALDA sTOCE LIST.

| Bid. Asked |  |  |  |
| :---: | :---: | :---: | :---: |
| Alpine .................... | 10 | Keeney |  |
| A madr | 5 | Live Yankec.............. 15 |  |
| Atantue ................... 10 |  | L.ord Byron | 12 |
| Arcade ................... 6 | 10 | Lit Pluta................. 7 \% ${ }^{\text {a }}$ |  |
| artelope |  | Main Esmural | 40 |
| Aituras................... 10 |  | Monroe. |  |
| Et11 |  | Mekinstry Tunnel | 10 |
| Braz1...................... 15 | 20 | Moute Cltristo, Tunuel co. | 40 |
| Rudle Bull | 12 | Mutual | 10 |
| Budie l'eark, Budie Districh - | 8 | Mount Bradey | 10 |
| Bright Star............... 10 | 15 | Mar'y L. Giardiaur . . . . . . . 100 | 125 |
| Brmbors ................... 55 |  | Мım Rial. . . . . . . . . . . . ${ }_{\text {d }}$ | 6 |
| Bullion (V.un Horn Dist.) - | 10 | Meredith..... . . . . . . . . . 12 | 18 |
| Budit Bluff, No. I ......... 8 | 12 | Nurtis Willow Springr.... 20 | 30 |
| Bradie BluIf, No. 2 ........ -- | 5 | Now Lsineralda Consol.... - | 6 |
| Bunker Hill | 10 | Newton.... . . . . . . . . . . . 50 |  |
| Bonaparte, Tab | 30 | Nevala, (Tumuel) | 15 |
| Cancisitu | 20 | Uzuk. | 20 |
| Climax | 10 | Old Wmatumeca......... 3 | 0 |
| Grockett................... 85 | 125 | Puıl T'unuel Co............ - | 5 |
| Cap | 5 | Pheilic.................... 15 |  |
| Clin $\Lambda$ ¢piue .............. 12 | 20 | l'on. | 25 |
| Davis, consohedition ..... --. | 5 | l'rile of Autulerr'....... . 10 | 15 |
| Durgit | 8 | Pera (two th. to the shitre) - | 15 |
| nelia. | 8 | l'enusy lvania Tunnel Co.. 3 | 5 |
| East Essex Lix | 12 | Reul Lel 3luate........... 125 |  |
| Excelsior, Excelsior Dist. . 3 | 10 | Rebercı . . . . . . . . . . . . . . Iŏ | 25 |
| Ėmpire................... 20 |  | Rral, White \& Bluc | 20 |
| Frankliu, Tunnel company - | 10 | Stanford Tusbel C | 15 |
| Fallstalf................. 20 | - | Schunectady ............. ${ }^{7}$ | 10 |
| Fullstaff, Consolidation.... 4 | 5 | strawderty .............. 20 | ! |
| Fresno.. ................. ${ }^{\text {a }}$ | 12 | Silver Hill...... ${ }^{\text {E. . . . . . } 65}$ | 95 |
| Paiks of Clyde............. - |  | Silver Hill, Boulie Dishicl. - | 7 |
| Great Easteru............. 15 | 20 | Seymour . . . . . . . . . . . . 25 |  |
| General Iluker (Cuu.) .... 14 | 25 | st. Lıияs. . . . . . . . . . . . . . . . - | 6 |
| Genural Jickson.......... 131/2 | 14 | Tuscan ................. ${ }^{3}$ |  |
| Garibaldi................. 3 . ${ }^{\text {a }}$ | 50 | Tiger ..................... 4 |  |
| Golteu 1 | 5 | Trecker ..................... - | 15 |
| Gulden Crosa | 12 | Tеипеяяее . . . . . . . . . . . . 12 | 25 |
| Governor Seyn | 25 | Union Tumul. . . . . . . . . . 20 | 30 |
| Golden Age . . . . . . . . . . . . 32 | 45 | Utuh | 120 |
| Great Britain ........... 6 | 9 | Ural propel | 600 |
| "Golden Era" Tunuel Co, 2 | 3 | Ural [extensiuu] |  |
| Greeu back. .............. 20 | 35 | Whliam Tell. |  |
| Hanoser | 10 | Wide Wast................. | 300 |
| Howard Tunuel Co........ 10 | 15 | Washiugtou, Tuunel comp. | 15 |
| Heath.................... 12 | 15 | Westere Sumait......... 90 | 110 |
| H'rınun Coms | 15 | S-Eliza and Coustantmople |  |
| Honn Clreck, Excelsior lis ${ }^{3}$ | 18 |  |  |
| Jutita. .................. 10 | 18 | Yaucey .................... 45 Cincumati .............. 25 | $\begin{aligned} & 60 \\ & 30 \end{aligned}$ |

The "Crockett" Ledge on Last Chance Rill is still incrasing in richness.

The last crushing of 22 tons paid $\$ 3,189$, averaging $\$ 145$ per ton; the shaft is now down to a depth of 50 feet, and
the ledge over five feot wide. The company have a large amount of very rich rock at the shaft, which is bring hauled at Stark \& 'l'ucker's Mill. 'The owners in the claim are not disposed to offer any of the stock for sale; 15 shares where sold on the 9 th at \$85 per share.

The " 'lan Alpiue" ledge on Last Chance Hill, a recent discovery, is proving very rich. 'The rock assays $\$ 1700$ per ton. The company have taken out abuat thirty tons of rock, which will be crushed immediately. The owners in the ledge are sanguine that the rock, withuut assorting, will pay over \$200 perton ; \$12 per foot was offered yesterday and refused. The ledge is about two feet wide und increasing in thickness as they go down.

The "Mary L. Gardiner," on Silver Hill, contiguous to the Young Winnemucca, is proving to be a very rich ledge; the shaft is down about thirty feet, and the ledge over fonr feet wide. The company have taken out about forty tons of rock, which will be crushed at Stark \& Tucker's Mill. The last ussay went over $\$ 7,000$ per ton; $\$ 100$ per share has been offered and refused for the stock.
The "Princess Royal" and "Geraldine" claims on Silver Hill, are also turning "ut rich rock. The work on both claims is being vigorously prosecuted, and from every indication from the rock now bing taken out, the owners will be richly rewarded for the money and labor expended on the claims.

The Metropolitan.-On Friday night, by the remembrance of our friend Warren, we enjoyed the pleasure of being present at the Hook and Ladder benefit. The house was not so full as we hud hoped to see, or as the performances deserved. The Bianchis, and Grossi were in splendid voice. Amidst much good singing we thought Mme. D'Ormy 's. taken altogether, was unquestionably the most finished we have heard in this city. She is not yet appreciated. We have been too long accustomed to screaming and bawling, to realize at first, the beauty of D'Ormy's voice, the assured ease, and perfect grace of her execation. Her time, however, will come. Mrs. Edwin and Mrs Judah were good as usual. We wish the boye success.

Magutre's. Opera - The present has been, indeed, a star week at this house, offering a combination of talent seldom brought before the public on this coast. To individualize, where all deserve praise, were invidious ; but we caunot refrain speakiug of Mrs. Hayne, Mr. Thaylor, and the local favorite, Mayo, as they deserve. The Lady of Lyons, Romeo and Juliet, and the School of Scandal, we thought presented some exquisite and finished acting from each member of the combination. In maty scenes of these pieces, criticism was disarmed. The educated and intellecturl portion of our community, should by no means neglect visiting Magu're's, duriug this carnival of actiag in California, for by doing so, they not only lose a rich feast themselves, but pay a poor compliment, to the energy and liberality of the Man. agement, at present sparing no expense to merit their pat ronage. The legitimate drama is a great institution.

Theatricals.-At the Eureka, this week, the performances and the audiences have both been excelient. In addition to the geueral attractions of this favorite resort of mirth-loviug peuple, O,Neile presents his "Irish Excentricities." Cotton's old "Uncle Snow," his favorite character, is a spleodid piece of acting. Night after night he convulses the house. The other principal good things were "Running the Blockade," and Birch's "Pres-dig-a-ta ter;" both admirable burlesques. By the way, white Gideon's band at the Eureka, ridicule the poor Eaglishman's "h," we fud Mrs. Mowbray at Maguire's continually using "don't never," and other American double negatives. Why not ridicule the more censurable error, or avoid it. ?

Dastaway Histrionic.-We beg to call attention to the next Dashaway Histrionic, on this day week. It is enough to say one of the "indefutigable Badgers," takes a leading part. Seriously speaking, this is one of the best amateur clubs in the State, well worthy of patronage. Apart from a strong cast in the beautiful play of Ingomar, the entertainment concludes with a grand dance. The cause also is good, and with such a programme, we wish them a full

## LIST OF MINING COMPANIES HAVING OFFICES IN SAN ERANCISCO.



# DESKS <br> Office Furniture, A ALL KINDS......FOR SALE BY <br> \section*{JOHN WIGMORE,} 

423 Chlifornia St., San Francisco.
OFFICE Johising, of all Kindx, attended to.

PALMER, HANSCOM \& CO., HOLDEN STATE IRON WORKS, No. 10, First Street, San Franclseo, aruish Castings and Machinery of all kinds Also:
Genuine White Iron Shoes and 1 Ifes. Palmer, havscomb \& CO.
To Quartz Miners.
r.nox`s Inmproved

AMALGAMA'INGPAN, with
ALMER'S PA'TEN'L STEAM CHEST
abe above combination secures tae most

tant musner, whille it is pecolurly ulaptes to the

Palmik. indiscosy \& Co.


The puhlic are Informed that Lefters Patent have heen
 Da fur the inside of Amugamatung palls or Tubs, and osame without his cousent. W. A. PAL3IFR.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street. PHIR sILVER MINING STOCK,
GOLID \& CURRY MINING STOCK, chollar maning stock, CALJFORNIA STEAM NAALIGATTON CO'S STOCK, BOUGET \& SOLD.

## DEETKEN'S <br> iomical and Metallurgical Works,

 On San Bruno Road, Islais Creek, san fbinclico.OID BEARING SULPHURETS WORKED AT REASurueess. Yielit of sulpharets trom io tu 50 por ceut
 inced handsian a cost of $\$ 50$ to $\$ 100$, if desired by
diowners. No power nor cleas water required for howners. No power nor cleas water required fior
nours-3in

## Lewis corfey and risdon,

 NEAMK BUILER AND SHEET IRONThe only oxolusively Boiler Making Establishment on Pacific Coast Uwned and conducted by Practiral
liter Makers. All orders ior New Work, the repairing o) (1) Wors, executed as ordered, and warranted as
d Stand, corner Bush and Marker Streets. Opposite Oriental Hotel, Sua Francisco, Cal. LEWIS COFEEY
J. N. RISDON.

IHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
I Achines, MATHEMATICAL, Optical and PhilosnphI iell Instrunpents, Scalen, Weights, etc.; Sieel rmys, Dies and Die Siuking, Embossiugstamp.
Reparing of Machiucry promptly attended to. No. 4 Sunsomie street, corner Maricet,

International Iotel,
Jackion Streat, Sis Francisco [A fuw dwors above Montgumery.]
FIREPROUF BRICK BULLDING.

## Mont convements to the

Stcaraor's Landug, Buniness nts. \& Places of Amuserment
OPEN ALL NYGIT
nas ('ity Railrod Curs I'ass tho Door. IEEUUUTIUN IN PRTCES.

Fiue Bathiag Reomenatrached to the Rarter Shop. Wurm and Cold shower Buths Free to Guests.
Tuinroughiy rengaten and nfinty frtand Air. Eadle rmon is furninhed with a ilist gually Patent surfiug bed and hair matervates. The futeruat lon 1 offers to guesta the greatest number and

Beat Furnished Family Roosis;
and sars as goon a ramer at any Houso iu the chiy I am determituell thay the intrisationsl glaall be the
 aim to narit a cominuance ur the prpalar finvor it ha eit inger ber
Principles. F. F. WEYGANT, Proprietor.

## Tremont Fouse, 418 and $4: 20$ Juckson Street,

THIS FINE, FTRE-PROOF BETLDNG; OFFERS MANY
 und uhout tho same distance from the priucipal places of
Amusment wandu.
The City Railroad Cars pass the Door.
The Houso is conducted on Temperance Prilleiples, which secures to our guests qutet.
Tho pricas for buard nid Ruoms are vory moderate-
yy the day, meal or week. We soucir a call rioos AL F. E. WLYGANT, l'roprietor. of $m y$ many guests I have tr
 carly on the two hnuses in connection, su that Traveler
wisting to put up at either house, may take the Tremen or luternntlunal Hotel Couch aud be talken to either House with their buggago, Free. F. E. WETGANT.

## Volcanic Smelting Furnace.

 tendiug to make use of the sume, when satisfied of its suporiority over all other means of reducillg ores and seyarating metals from the sulphurets, cau obtiic ail
needectexplanation and advice in retard to the same and the terms of sale of rights to use tho same, ou application Col J. D. Stevenson or T. Ogg Shaw, or by lettor to the proprietress through the Post Umice of Ban Francinco.
Druwiugs maty be geed at the uffice of Col. J. O.Stevenson Drawngs may be seed at the offtce of Col. J. D, Stevenson,
No. 614 Merchant street, ur at the ollce of T.Ogg sliaw, No. B1+ دerchant strect, ur at the oflce or
n Braunan' Buildsug, Montgomery street.

The time requirel tor readucing ores by this Furnace is from three toeicht havers, and the anmunt of fuel ouly one-tenth as much it is cousumed by other proce-sces. Tho process of condensation is applied to thin Furnace
which will save all thuse portious or precious metals Which usanally escane in a volatule form.
The attention of all interested in the finject is requested to examine the importantresults obtainud hy this pro cess
Parties wishing will be allowed to erect a rrial Fur nace of a capacity for metting ouc ous of ore or more, on sign int, should they contillue to make use of the illeuttion or a logker period thau two months.
mch 16
MRS.

## LEANDER RANSOM,

 Civil Fingineer AND
## SURVEYOR,

Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years.

## ALSO

state locating agent.
And as such having the sale of 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in ersh and the balanco ona arere-it of several yeera,
OFFICE: Second noor of Express Building, N. E. corner of Montgomery and Californin streets.


John R. Sims,

and Juckson streels, SAn Freancimo.
Manuructurers of Fire Proor Doors and
shutters, Buk Vauts, Gratius, (Eehotary Rand
rurritory. Viacouvur's The iuturior Oregon, Washingtou phe on the Pacille coast, attended to with promptues

Mr. Sims Appreciates the Past liberul parrouage of his friends, aud trusta that he may
combinue to merit it in the futwo.
litue to ment in min fure.
For the Informition of Strangers he would say that he feals confident that his experience in his particular calliug is surpassed by none on this coast, which his superior work, sent to nimost evo
ry towu in this state, Oregon, also Victoria aud the Sand ry town inthis state, oregin, also Victoria and the Sand-
wich Islands, and to be seen on some of the bege buid ings in snu Francisco, fully attrast. A large assortment of secoud hand shutters for sale at fow rates. api3

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. or Weblb, San Franelsco.

FULTON FOUNDRY \& IRON WORKS
HINCKIET \& CO., manubacturitrs oy
Steam Engines, quartz, Flqur and Saw Minls; Cast Tro Froxts, for Buldinges Mining Pumps, and all kinds of Machinery, Etc., FIRST STREET,
betwhen market afd Mision............San Francisco.
*** All kiuds of tron and Brass Castings furuished at short bolice. Every style of Finssing to Irou whe cast. Repairiug of Machmery neatly hone.
Patienn Makiva in all lin varlous forms. D. B. Hinckley. Wa. E. Worti. Th. A. Firld.

## W, T. \& J. Gardatur,

 City Brass and Bell Founders
## Cor. First \& Mrarket sts., San Francisco.

 ern and Hand Bellss aid Gongs, Hose aud all other ioints
 HYMRAULIC PIPES GUT NOZTLES for MINING PUK POSks, Iron steam pipe furnished with fittings, Ke.
CUUPLING JOINTS OF AH, SIZEA. Manufucturors of "Gal CUUPLLNG JOINTS OF AIL, SIZEA. Manu
ratt's Patent Improved Sournal Metal.

## SQUARZA'S PUNCH.

FIRST PREMIUM
it the sacramento agricultural state fatr FOR 1862.
ALSO; FIRST PREMIUM
t the San Trancisco Bay District Agrioultural Fair, 1862
Maxdpattory, whoizsale afd retall,
No. 44 Leldsiorff street,
Opposite the What Cheer House, San Francisco.

## To Mine Owners.

Partixes huving is Good silvor min Machinery to work $1 t$ for an interest fu the Mue Wilhto wall tu apply at thas oflive. No orgmized coma
Yany ureel apply.

## 50 lbs MTARINE and

## Fire-Proof Paint,

 M ANUPactukid by The Paciric aetahicirgica
 quitu equal to Copper, nu worms wall over cifech si, uad
cheaper that auy ofler paint.

## DIRECTIONS :

For Dlecke of Sthys, uso two parta Mineral Paint, one
 three purts Mincrul Pum, mix with Coal Tar aud apply Fir sale by all Ship, Chandlers aud Trateamen, in bozen of 60 tits. euch, or by the Pacilo Metailurgical Works.

## as POUNDS FIRE-PROOR PAINT.

Whew ured on Rouff, Buildinga, or Fencek, it is equal
to coveriuy them with a cont oif toue, belps perlecty Firg Prool, aud coasting less thum auy palut.

DIRECTIONS :
HIOUSE:-Mix three parts Miueral Paint with one par
white lead, thin will Linssed oil: if a lighleer color is wanted, mix less paiut, mure head.
RUef:- -rive rarte of shiorrul Paiut, one part whit as one coat when properly appliedwill last chree years.
G. T. Fovqee, Suycrintendent.

WORKS, North Beach; Offee, 318 Call forniabt., Sna Fruncisco.

## WRIGHT'S PICKS.

JOHN WRIGHT, of Sacramento, has estavushed humself in san trauciscu for the rasufacture of every description of 1 ICKSS, of the best material, at reducod prices. Pick Eyes of the best iron furvished id auy quan tity, at low rates Orders from the country promptly altended to. N. B.-None genuine uniess stamped with


JOHN WRIGHT, 511 Barket strect,
Opposite Battery, San Frameisco.

## REIIOVAL.

O Ficem of the pactiric metal. Havius eularged is removed to 318 California atrees Haviug enlarged our Works at North Beach, we are
now euablet to reduce from 10 to 15 tous of Silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Sil versmiths' sweepuge reduced or purchaned. CURPEK UBLD-Highest murkut rates adyanced ia cash, for shipments. S. C. MRADELGAW, Agent,
318 Californis street, near Sausome,

## WANTED,

## GOLD Quartz suitablefor

 CUTTING JEWELRY,By FRONTIER A. DEVIERCY,
I3 ap
487 Pine atreot, San Francisco.

FREDERICK MANSELL,
mechanical \& architecturai
DRA UGHTS MAN ${ }^{-}$;
No. 422 Calfornia street, corner of Leidsdorf.
Drawiugs of Mopsrs made for parties applying for pa-
ents at Warbingtou or Londou.
HAYNES \& LAWTON,
importers and dealers in
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery, CLOCKS,
Silver Plated and Britania Ware, erc., ETC., ETc. NO. 516 SANSOME STREET, L[CORNER OF MERGHANT,]
P. DONABUE. H.J. BOOTH. C.S. HGGNS.

## UNION

IRON AND BRASS FOUNDRY. (The First Established in the State.) Corner of Firest and Misnon Sthemts, San Francisco.
HAVING ADOED TO THE SEVERAL Hepartments all the recently improved Touls, this Establishuneot is now the mo
of any on the Paciic Coast.
of any on the Paciic Coast. tice, Loconotive, Marine anu Stativuary Engines, of every size and deseription.

## BOILERS.

Lncomotive, Flue, Tubular, Upright and Cylinder, furniphes with or without engines, cumplete.
Milachinery and Castings of every deseription, Saw QUARTZ CRUSHING BATTERIES, Embracing a great variety of Stump, Mortar and Cam Patteris.
AMALGAMATING MACHINERY, Varncy's lnaproved Patent Pans ond Setters, Wukely
Paus, Amalginating Tubs, Plaisised's Grinders, CLillo
Mills, Concentrulors, etce, etc. MINING PUMPS.
Corbish, Lift and and Force Yumps, from forr to
eight feet stroke, with Pipes, Bob Mountings, and Gear. eight teet stro
ing complete.

HOISTING DRUMS.
For Shafts or Iuclines, with clutch, friction or $\bar{V}$ cones. Sole Agents rud Maunfacturers firr the Pucific Coast, of Steam Purnps and Fire Engines.
All Coutracts and Orders executed with promptness
and dispstch, aud at reducerl prices for Cash. je21 DONAHUE, BOOTH, \& CO.
I. C. E. KLEPZIG \& CO.,

GUN MAKERS, DEALERS IN GUN MATERIALS,
733 Washington street, San Francinco, [One Door above Kearney street.]
Hepairing done in a workmanlike manner at the shor-
est notice. est notiee. and also Silver Platiog, by E. Eklaud. je21
Gilding, and

## CORNELL'S

## ECELSIOR GALLERY,

 650 Washingtonst. Three doors belowHaving refitted the abuve rooms tha undersigned is now prepared to furnich the public with a superime style
of Picture, at a lower price than ever bofore oftered in tho city. CARD PICTURES.
As I bave every facility for producing these heautiful As i mave every facility for producing these heautiful
pictures, in atl their differeut rarieties, I buvereducod
the price to $\$ 3$ Per Dozen and $\$ 2$ Per Half Dozen ! Large size Photagraphs. \$3-Extra copies \$1 each. AMBROTYPES in all styles and Prices.
OLD PICTURES copied with care and accuracy, in any Etyle desired, Particular atteution paid to puctures of
Clifldren. Chilidren,
Pictures painted in oil or Fater Colors, and retouched
in ludla Ink by a competent artist.
 R. H. CORNELL.

## Giffards Injectors,

$F^{\text {OR SUPPLYMEG BOILERS WITH FEED WATER }}$ should be without oue of these raluable instruments. Send for a Circular.

DAVID STODDART, Agent.
Front Sts, San Francisco.

## BAUNCHEIDTISM,

The Preserver and Producer of Life. $T$ He frfecr or bacnchivitsu AS A setrod or and needs on omore, proof. The publichas crowned Beiuncheridtism already with an extriardinary patronage, and
it is acknuwledged by all men of peenice that BavxCubibmear is fouyded ou ar rational, scientific basis. ralysis sarely, and with thure success be arpplied to pa-
 can find their ouly relief by the ebove methon. Espurcially can it be applicd succesefully, in the spring
of the year to diseases of the ejec.


 of the invertor of the met heod by which he can prove
that lic is berfeet roaster of the later. that he is berrect roaster of the latter, C. CR. BORCHERS,
No. 19 Kearney street, and No. 4 , Jiark's Plato, Firs


The Pacific JIneral Compnay Make liberal advances uton the ohes of Copper, Silper, T'in, 'Nickel, Cobalt, Zinc, Lead, and Sulphurets containing Gold.
Due account taken of all valuable wetals. combined
witli Silver and copper ores, and advancas made Hercfor. Parties owning undevelonped mines and desiring canital to prospect the same will receive assistance, ir, upou ex-
a mination, suck leads are deemed sulficieully valuable to justify such expenditure.

OFFICE, NO. 1, ODD FELLONTS HATLL,
je1-tr Moutgomery Street, SLa Francisco.
MARTIN \& Co., OFFICE---284 Montgomery Street, Up Stairs,
will contract for the
Purchase of Copper Ores,
Assaying 8 per cent and upwards of Conper to the Ton. We will make ADVANCES upon Ores of COPPER, RLN Suncs willibe furnishef and Freights Paid on all con-
signments if desired by the consignors. Henry Martin, J. F. Greenman, New York.
San Francisco Post Ofices, Box 1259. je 1.

## REYNOLDS Patent Cut-off and Governor, FOR STEAM ENGINES.

12\% ot these Invaluable Machines, ARE NOW IN USE
In Cailifornia aud Nevada Territory, giving a perfectly regular motiou and
Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

 use. It can be seen in operation at the Golden state Iron
Works, and at the Stone Breaker, foot of Marlict Street Sur Fravcisso.

## Clark'sSteam and Fire Regulator,

Far controlling the Draft or Blast by npeung the Chim-
ney or Tave in the Blast Pine by the pressire of the ney or Valie in te Be Bast Pille by the pressire of the
ntenan in the boiler. It will $r$ rgulate the pressure to a pound, on the square itch. It cNANor get nut of order
aud any person can put one up in an hour after the dam and any person can put one up in an hour after the dan-
per is put in.

## Ingersolls Patent Drill Press,

 With which drilling can be done the sume as with thoeommon rachet, Rud when small holes are wanted, it can be done tour times as fast. The handle can be wor-

## Fclt for Steam Boilers, Pipes, Etc..

## Steam Engines, Boilers, Pipes,

Hydraulic Presses, Sluafting, Pulleys, Etc., at the lowen

## Antí Incrustation Pawder,



and 2,000 others in the United States.
E. T. STEEN Agent.

Offlce of the Nevada Copper Mining Co
March 24, , $\$ 63$ - At a meetingo 1 the Board of Trustees,
held this day, an assesement uf Forty Gents per ehare
held this day, an assessment of Forty Cents per share
was fevied upon the Capital Stack of the Company, pay
whe tweuty ( $\%$ ) cents per sliare with in llirty days, and she tweuty ( 20 ) cents per slare with in thirty days, and
wenty ( 20 ) centit per share within sixty days from this date, to the Secretary. By order of the Trustnee,
J. ARMSTRONG, Secretary.

## J. F. \& H. H. SCHAFER <br> BEDDING and FURNITURE,

Blankets, Comforters, Sheets, Etc., Etc. Nos, 504 and 506 Sansome Street, (Near Clay,)
This Establishment is now generally known to be th Cheapest Place in the City for gooil Belding.
Branch Store......Rroad St., Nevada.

## A. C. MORSE,

 Mining and Roal Estate Agent,$\mathrm{H}^{A}$
AYING MADE Artidangenents tuck Brokers of San Frauciscu. I am prepared to BUY ralda District

## MYERS \& DAGGETT'S Mining and Stock Exchange,

Mining Slocks of All Kinds Bought \& Sold.
Business conuected with Mining Stacks of every descrip tion promply and coutiuentially attended to

## P. M. STEAMSHIP COMPANY. NOTICE.

Until further motice, the Steamers of dispatched oulthe

3d, 13th and 23d of each month.
When any of the above dat $\varepsilon$ fail on Sunday, the steam
er will be disputcthed un the followilur Mond A. B. FORBES, Agent.

Wm. P. TAAFFEE,
importer and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, EIC.,
Cor. Fiont and Sacramento streets, San Francisco.

## A. ROMAN \& Co., <br> Waomane axp Rrtant

Book Establishment, 417 and 419 Monigomery street, SAN FRaNCISCO.

Orders respectfulty solicited anil promptly attended to Treatise on Metalurgy, Comprising Miniggand Gen
eral and Particular Metullurgical Operationa, Etcon Etc. By Frederick Overnana. A Manaial of Metallurgy, or A Practical Treatise on the
Chemistry of Metalis.
Hecords or Mming and Metallurgy, or Facts and Mem-
By James Phillips and Jolin Darlington
anual of Metallurgy, morre particularly of the precious
metals; but inctid ing such others as are employed In dental practice.
iggot on the Chemistry
Practical Mineral Assay and Mining of Copper,
Gold Mining and Assay ying; hy Phiips. Overman.
Mivers' 'onnpuion aud Guide, comppitcil by silversmith
Assayers' Guide or Assayers' 'Uuide; or Practicaldireetions to Assayers, Mi-
ners and Smelture.
Praetical dssayiug, by Michell.
Prace Ores and inker Mines, by Pro. Blake.
 Wessbact's Mecibanics or M ithinery nud Engineering
Nevillo's Hyuraulic Formula Tables. Nevillo's Hylraulic Formula Tables.
Fresenius' Chemiral Analysis. Together with many other wo
n2. Books imported to order in slind 417 d A ROMAN \& Co.

## WHEELER'S <br> Amalgamating and Separating Pans.

It is acknowledged by all who have exatuined the prin-
ciples and witoessed tho operntion of these Pans, that ciples and witoessed tuo operntion of these pans, that
they are decidedy superior for triturnting and amalgamay are decidedy superior for tritura
mating purposes to any other in tse.
The most important principle connected with the ope-
ration of these Pans is the ssl ration of these Pans is the asplarution on the triturating
process from thi: $t$ of exuracting the amalgam from thi process from thit tor exiracting the amalgam from the
saud. The chief cause of luss of che precinus metais uri-
and ses fron the passing off of the sume in combination with sen qualcssiver, duriog the proces of trituration, and in
teleaniug up. By the introduction of tue Separating Pan cleaning up. By the introduction of the separating Pan
to follow the trituration this loss is
ontirely anvoitled. In working these machises ihere is no afpreciable loss
gaicksiver, aud hence uone of the preclus inetalf. Where these Pass bave bcen introiluced and operated
of the side of others ob sands from the same vat, the oy the side of others ob sands from the same vat, the
Wheeler Pnus have nniformly gained a large percentage Wheeler Pnus have uniformly gained a large percentage
olmetals over its compenitoi, as well ag still larger
parcentage in the amount of work perfurmed.
 nterested aro invited to call and examine for themselves,
aol6-tf
ZENAS WHEELER.

## To Mining Companies,

TOR SALE-ASTEAMGNGNi, AND BOINR, THE


 guarauteed. Apply to I. H HAM, No. 211 Clay st.
San Francisco, June 13, 1868 .

## New Patent Agency.

## WE RAVE CONNECTEED WITH THE

The Patent Agency Business,
And would invite Inventors and Discoverers on the Pa-
cific coust, who wish Dispatch as well as fountmy thral upno us. We have nu Experiected Ageut at Washiug
tou, which, tegether with our uw川 experience of serera ton, which, tegcethe
years, renders the

Mining sind Scientific Press Ageney
The most de-irable phace to make application for Letlers Paterat on the Paciffe coust. Apply at
Offre uf the "shluing and Stiputific Press," Ronm No. 27, Federnl Builunug, corner of Buthery Anid Wash
ingtoustreets, (directly opposite the Prsi Ollee) ingtoustreets, (directly opposite the l'ast ollee,) san
Fraucisco.
EWER \& SMiTE.

FOREIGN PATENT'S OB'TAINED By application at this uffice, Roum 27. Federal Building.

EWER \& SMITH, Solicitors

NOTICE TO INVENTORS.
nventors wisbing to file caveats sthoula apply at this office, Room No. 27 , Fedural Building. Terms madis.
ETVER \& simTu.

## PATENT RIGHTS.

Pateat Rights Bought and Sold, At the offee of the "slining and Scientifie Press"" Areney

## P. M. S. CO.

PACIFIC MAIL STEAMSEIP COMPANY'S road with the steamers of the Atlautic and Yacilia Steamship Company at Aspinwall.

## FOR PANAMA.

The following Steamships will be dispatched in the

wont of May, 1805.
Tune 13th, = - Steamer Congtitution June 83d, - - - - Steamer Ocianba

Will lenve Fulsom Street Wharf, with Passengers and Treasure, for Pallame
at 9 O'Clock, A. M., punctualis,
And connect, via Panaman Railroad, at Aspinwall, with For Freight or passuge,

## Miners' Foundry

## MACHINE WORKS,

First St., between Howard \& Folsom, san franciscu.
 III then state of Californin, woll be furnished with dis. patch at the Miners' Foundry aud Machive Works, as: Stcam Eugines and Boilers, Flnwer, Saw and Quartz mill machiuery, Mining Pumps, Amalgamators, Retorts,
Etc.,

Particular attention will be given to the mannfacture af Machinery in Sections, designed for places of diflicult
accers. Various mudele of Quartz Cruthers, Amalkamaaccers, Various midele of Quariz Cruthers, Amalgama-
tors and Water Wheels-some in operation and on exinbition. Parties desiriug to test their ores practically, in mull quantities will be afforded ample facilities, free of cost.
All

All partiee desiriag accurate and highty finished draw. ings and superlor Machinery, at most reasurable rates

HOWTAND, ANGEL \& KJNG
San Francisco, February 23, 1863.


## THE PLATTNER PROCESS.

Mr. Editor :-I find there is much misapprehenion here as to the "Platiner Process" for extracthog enld from eulphurets, and the extent to which it na bren used. Mr. Hittell even stated in 1861 that it ad not been "nsed on a large scale." The fact is that is so valuable that it emahled the Reichenstein is so in Sile-ria, which had been closed for centuring , be reopened and worked. In 1851 a Conncil medwas awurded to Herr Platther and Gueltner for its necessful application there. The ore is pyrites, confining arsonic and about 200 grains of gold to the in. It is ronst d and the arsenic volatilized and con-ensed-the burnt pyrites. chiefly oxide of iron, is aced in a vessel, where it is subjected to the action chlorine. This renders the gold sululle in water, nd the gold is afterwards precipisated from the sotion, antl then reduced to ingots. Professor Masatt very justly observes on this, that it is equally apicuble to the vast quantity of refuse accumulated Har other old works. Yours, \&ce,
San. Fran., June 27.
A' Poor Chemist.

## CAST CHANGED to rar iron.

Sterling's process for the conversion of cast into or iron is desprving of consideration:To a given weight of cass iron, about 1-20 to 1-5 mach serap iron is added, most conveniently by tting the scrap-iron into the hollows which it is de. ed to fill by cast iron run directly from a blast furce. The pigs are puldled as usual, takiug care at the whole be thorouglily melted. The stream of
st iron may also be rum apon the hearth of a reverstiron may also be rim upon the hearth of a reverratory containine scrap iron, beated to-a point be19 welding ; the beat is raised until both are incurrated, and the metal is then ruu into a puduling wace. With better qualities of cast iron, from 1-10 I-3 of scrap irou may be used. In order to ohtain halleable ron, harder, less fibrous, and more granathan usual, $1 / 2$ or 1 per cent. of tin is added to the illeable iron tuixtures above described. Biemuth, trmony nud arsonic will produce a similar effect. feh hard iron is said to work well while hot, under - haminer, in the squeezer, between the rolls, and in southy. Zive may be used in the form of a calamine. bout the same quantity of copper also gives additional riness of iron. Black oxide of manganese in the proporHo 16 to 1 per cent. of the mixed malleable iron, rives a - Ig the puddling process.

Artifictal Gems.-To make gems, Elbemen avails himof of the two properties of boracic acid, of dissolving itallic oxide by fusion, and volatilizing at a higher heat. His process resembles the solution of substances in water $\$ 1$ the evaporation of that water to obtain crystals. Huvif made a mixture of alumina and magnesia, in the fne proportions as they exist in spinelle, and added if 1 per cent of bichromate of potash, he added two pts, this mixtare to 1 pt , of fused boracic acid and exposed it iplatinum resting on porcelain to the heat of the porcelain flace of Sevres. - The product contained cavities lined dh minute rose-red, octuhedral crystals, harder thau quartz a infusible buture the bluw pipo--They hadd qull the
racters of the ruby. The constitueuts of emeald treatad if he sume way, gielded small hexagonal crystals, harder o quartz, and therefore agreeing with true emerald.


The accompanying cat represents the "Bryan Battery," manalactured by Goddard \& Co., at the Pucific Foundry in this city. This Battery is now exteusively employed ia every section of the State, the adjoining 'lerritories and Mexico, und possesses many advantages over most of those in use. One very important advantage attendaut upon this Battery is the small expense of its erection and the facility with which it may be moved from place to place when found desirable. Being constructed almost entirely of iron, it is not effected by the alternations of heat and moistuie, which produce such a damaging effect upon all structures of wood, in the interior portions of the Western Slope. The mill is also adupted to dry as well as web crushing. Each Battery is complete in itself and others may be added from time to time, as uccasion may require, without making any impurtant changes in the arrangement of the mill, or machinery. The Batteries after being constructed are always put up at the Foundry and perfectly fitted, b fore being sent off. Perhaps one of the best recommeudations, which can be offered
in behalf of this Battery is the fact of ite introduction into so large a number of mills as are enumerated in Gounarn \& Co's Circular. See advertisement of this Mill on our lastpage.
A Board of Brokmrs [ncorporatrd--The San Francisco Buard ul Brokers on Friday filed its certificate of incorporation. Capital stock $\$ 125.000$ in 12.5 shares of $\$ 1.0010$ pach. Trustees, - Sianuuel Purdy, G. M Blake, J. Shaffer, A. J. 'Thbias and J. D. Stevenson.

A Crocik for Three Pence. An ingenious time taker has been invented hy a citizen of Marchester. It is a slaull card, ou the face of which hangs a weighted string. The card is so figured, thal by holding in the sunshine, a bead on the string will indicate the solar time. By it the hours of sunvise ahd sunset may be also ascertnined. It is, undoubtedly, the cheapest time-piece that ever was devised.

## great basin mining company.

The above named association is now fully orgauized and prepared for aetive operation. The Company holds 55,000 feet. chiefly in Humbult County, Nevada Territory :-Among others, on the following ledgous Clyde ledge, Occidental series, Neptune series, Auld Lang Syne ledge and Frost ledge. Besides which the Company owns several town sites, large quantities of wood land, etc., etc.
The Capital Stock is $\$ 5,000.000$. The names of the parties interested are as follows:-PresidentGeorge C. Juhnson. Treasurer-George W. Gibbs.

Trustees-George C. Johnson, Messrs Billings. Teschemacher, McAllister and Jessup.
Secretary-J. H. Blood. Members-W. J. Tilley, (Sueath \& Oo.) Thomas Bell, (Barron \& Co.), W. C. Little (at Parrott \& Oo's), A. P. Stanford (Stanford Brothers), R. M. Jessup (C. S. Navigation Co.). John Wodderspoon (Cross Company), Salomon Hydenfeldt, Robert Tumer, ('Turner Brothers), Hall McAllister, J. C. Lind (at Cross \& Co.s), Charles Pace. George C. Johnson, John H. Saunders, Dr. O. G.' Knowlos, Heury ${ }^{\text {F. T, Teschomaker, G.W. }}$ Gilb, Frederick Billinis, Henry M. Hale, James Kellogg. H. M. Whitmore, O. R. Johnson, P. N. McKay, Jonathan Williams and E. R. Highton.

## CUPPER UPON THE EASTERN SLOPE.

Mr. Alexander Hertlein, has left with us some fine specimens of copper ore taken from a ledge recently opened in the Sullivan District, East of Carson River, aud six miles distant from Winter's Mill. The ore consists mainly of Blue Carbonate and assays for copper 'alone, 24 per cent. Quite a number of assays have been made from this vein, for gold and silvel, the average result of which, in addition to the copper, is about $\$ 20$ in gold, and $\$ 18$ in silver. The Company cansists of three persons, beside Mr. H., and they hold 1200 feet. It is knowu as the Red Fox Ledge. This, we believe is the farthest point northward at. which copper has beeu discovered on the Liastern Slope. From this region, southward, into Mexico, copper is found at almost all points. Our friends on the Eastern Slope are beginning to turn a large share of their attention to copper, not neglecting, the while, either gold or silver.

Notes of a Trip to Slate Range via Los Angeioos and Eu Paso.-No. 3.

## el passo.

Apric 22nd. Two of our party having concluded to re main here, we took off our freight and pitched our camp in Mesquit. (don't know about the spelling of this word-pronounced Mayskeet) Cañon, where a patch of that beautitiful bush grows about 8 teet high, covening a space of about 20 feet square.
This is the only growth of the kind in the neighborhood, and, with the springs near by, will probably form the nucleus of a great city, poco tempo. One of our party having contracted at Los Angelos, to drive one team through to Slate Range, passed on with the train, in the afternoon, with instructions to stop there and report, if good, or return.

## in camp.

The first thing to do, after pitching tent, was to get supper. We have to go out on the plain, nearly half a niile, where we find plenty of grease-wood, which grows in bushes twenty to forty feet apart, twenty-five to one hundred stems rising from one root, some as large as the thumb and many as small as pipe stems, and from four to eight feet high branching in every direction, so that one can only with diffculty, approach near enough to cut the stem at the base. This is very laborious, and generally results in bleeding hands and wrists, unless protected by strong gauntlets. With a rope, we tie up as much as we can carry and pack to camp.

## an unpleasant netghbor.

While working into my first bush, I found a nice little rattlesnake coiled up within four inches of my bare hand. I soon dispatched him and found he had only a button on his tail, showing that he was not yet eighteen months old. This greasewood makes the hottest fire of any wood I ever burned, for in five minutes after applying the match, I found the heat strong enough to melt away all the soldered parts of a coffee-pot. Mem. An iron coffee pot, well riveted, is the only style to be used here.

## AFTER SUPPER.

In twenty minutes supper wes disposed of, and it being very dark, we concluded to visit a neighboring tent, fifty feet distant, and the only one up when we were around. There we found the entire population of the District assembled under a canvas about twenty feet square, also the population of our ox-train, with Mr. McCaffey, as chorister, all actively engaged in singing the popular songs of the day, and all determined to have a jolly time so long as Mac could be with them, as he leaves on his horse in the morning, to overtake his train, now on its way to Slate Range.

I improved the opportunity here presented to take a census of the District as a reference, hereafter, to know who might be entitled to a diploma as pioneers. I registered the following names:-
Theophilus Cobb, via Virginia, Kentucky, Visalis and Slate Range, here.
Griffin H. Wiliiams, New York, Los Angeles, San Bernardino, Slate Range.
David M. Porter, via Los Angeles, here.
David Teass, Missouri, Los Angeles, Slate Range.
Peter A. Turner, Virginia, Texas, Visalia, Slate Range
Albert F. Meyers, Texas, Visalia, Slate Range.
John C. Steger, Missouri, Volcano, Slate Range.
John D. Yarborough, Mississippi, Soledad, Slate Range.
Geo. W. Yarborough,
A. J. McGaftey, Los Angeles, Forwarder.

Four of the above were absent on a trip to Slate Range,
for their tent, tools and grub. But as they came in the next day, and had been here before, they are entitled to be classed among the Pioneers, as well as our own party. These now form the nuclens of the future rich and populous District of El Passo. So we retired, "by the light of the moon," nearly all, to our blankets in the sand.

## A tiew of tue country.

1 Aprit 23d. Up bofore the sua to look around us to see what kind of a land we are in. From a barren hill of something like ashes, near by, we take an observation. As we look south-west, over the road we came, we notice a great
barreu plain, as far as the vision extends, with a chain of mountains bounding it on the right, and another opposite as and about 15 miles distant, running 15 to 20 miles soathwesterly, making the plain below us an arm of the Great Desert, about 20 miles long, to the range north-easterly, over which the road leads to Slate Range, throngh the EI Passo.
About three miles back commences a small alkaline lake, some eight miles long by three to five broad, resembling a sheet of ice. Not a bush or tree is in sight larger than the musquit by our camp. All is barren, the mountains generally appearing like cones of ashes, sharp and precipitous. Not a drop of water is any where to be found, except at six poiuts within forty-five miles, viz :- Laurel Hill, Mesquit Springs, Mountain Cañon, Desert Springs, 12 miles, and Siuk of the Tehacbepe, 40 miles, and Can or Grape Vine Springs, 9 miles south-west.
Nothing can exceed the barren and desolate conditiou of this country, while the thermometer ranges from $102^{\circ}$ in the cooler places, to $122^{\circ}$ in our tent, wheu closed, from 10 o'clock to 3 P. M.

## the miries.

We amuse ourselves to-day, in examining specinens in canip from the various leads:-Tucker, Eureka, Comet Mammoth, Boston, Ben Lohmon, Gov. Downey, Laurel Hill Manzanillo and Almadan. All look good-some very rieh. We shall visit them.
24th. Put on my wooden soled shoes and started out early to prospect and examine the lodes already taken up. We find that half a dozen men have been very busy here most of the time since last November and have lodes taken up in all directions, particularly in the vicinity of Copper Mountain and Copper Basin. They abound in Lodes in which copper seems to predominate, though the universal opinion prevails that they will run to silver. Perhaps they will, but very little is actually known of the real value of the rock and much labor is to be expended before anything like a certainty can be arrived at. Two or three feet seems to be as low down as any one has yet sunk on their lodes, and none seem to be in haste to work down while there is a good chance to prospect.

## district mining laws.

The laws here are very liberal, giving a year to prospectors to do any work, if a record is made within 30 days after localion! For the good of the country and new comers, we must try to have this law changed to a shorter time, so as to abridge prospecting and making a show of work done on the gronnd.

Firr Clay from Fustble Clay.-A good quality of clay, but not fire clay, is mixed to a paste with muriatic acid, and after some time heated to boiling.-The acid is run off the clay fully washed and dried. Clay thus trated was made into crucibles, in which bar iron was fused, without their becoming softened by heat. The acid simply extracts a large proportion of the bases (lime, iron, \&e) which tend to flux the principle part of cray, the silica and alumina; but the question of economy will influence the use of this remedy for the fusibility of clay, and it is doubtful whether the process will be adopted by maufacturers.

Hydratuc Cement.-When finely powdered marble, limestone, or chalk, is mixed to a paste with milk of lime, it hardens rapidly like hydraulic lime, has a feeble alkaline reaction, and resists water tolerably well. The mass is plastic and may be used to take large or small impressions.
The analysis of a genuine Roman mortar from Pompeii, leads to the inference that the Romans prepared their mortar from a mixture of caustic and carbonate of lime, with the addition of pulverized calcareous spar.
New Moror.-M. Boutet, a French engineer, residing in Brussels, has invented a machine which it is said is likely to do away with the employment of steam as a motive powert The machine is worked by hydraulic pressure, the principle being applieable alike to locomotives and stationary ongines. Eexperiments just made with it at Brussels lave been attended with complete sucoess.

Thr Adrora Quarty Mull. ou Bodie creek, Aurora, Mono county recently took out from one weolks run, as much amalgram as four men could carry!

## GGOLOGY AND GOLD IN ASIA MINOR.

A distinguished English Civil Eingineer, C. E. Browning Esq., recently delivered an very interesting lecture before th Smyrar Literary and Scientufic Institution, on the "Geolog: and Gold in Asia Minor," from which the following extrac is tuken
"To the geologist this country offers a field of observation that will well repay the time expended upon it. To acconn for the gradual rising of the land on a tideless coast, and t speculate on the effect that future elevation will produce o the country, are points full of the greatest interest, not oul to the mau of scienc, but it is a most important question the Gov'ment and the inhabitants of the country. The rive beds are rising so rapidly, that if human agency does no counteract the influence of Nature (and it is not probabl that the Turks will do anything, as they prefer to let Natur take her comse,) the greater part of the plains in the iliteric will become waste marshes, hot beds of malaria, fevers al plague. For instance, let us turn to the natural drainage, the western part of Asia Minor, or what I will call the Smy na Watershed, which is at least 10,000 square miles in exte and is drained by only two rivers, the Hermus and the Ca ster, neither of which is nawigable, and both of which ba within the historic peried become so raised, that the mou of the former is about 15 miles nearer the sea, leaving a pa: age now of less than half a mile to the opposite shore; at the Cayster has advanced at least another ten miles. the southwest coast this encroachment is still more visib
I leave you, therefore, to imagine what will become of t vast amount of rain that will fall upon these 10,000 squa miles iu time to come, when the rivers are still more rais and consequently less able to carry off the water. Let $h$ examine the rocks that exist-it is an almost unexplos distrcit. Smyraa has added scarcely a fossil to the cabin? of Europe; and in what museum is its metalic wealth disple ed, Here are mines of silver, lead, antimony, copper a iron, almost unrivalled for their richness; and $I$ have ventui an opinion that the day is not far distant when the gold d gings of Asia Minor will attract thousands to Smyrna. lignite coal exists in incalculable quantity, and though has been proved unfit for the manufacture of gas, its el proximity to a rich iron district will render it a most valua) addition to the resources of the empire. An abundants ply of the finest kaolin provides what is necessary for manufacture of the costliest pottery; while from the comm er sorts of clay the home requirements of the lower branog of the ceramic art can be supplied. The geological studi, in his rambles in this country, meets wth rocks of all clas, from the most recent alluvium to the oldest of the priniy rocks-from the volcanic cone, forced to the surface by ternal fire, to the stalactite deposited by drops of water.

The Calaveras Chronicle says that within five years ti a will be 10,000 inbabitants in Copperopolis and vicinity.

Wanted, - A full set of Patent Office Reports (Mechanil Inquire at this Office.

Our Mint, its Rules, Charges and Operations. For parting silver from gold when gold is below $300-1000$ ths. fine .............. 3ets pe from 30-100ths. to 750-1000ths fine. $7 \mathrm{cts}{ }^{4}$ $750-1000$ ths to $950-100$ ths " 14 cts Deposits Silver Bullion-Purchases. $\$ 1.21$ per standard ounce $1 / 2 \mathrm{per}$ pt. on gross value of all contained for coinage.
Refining charges (only where gold is contained) pribr tion of goid 1 to 300 3cts. per oz. gross weight 301 " 500 , 7ets,

Defosits for Fine Bars
$\$ 116-4-11$ ths cents. per standard ounce, $1 / 2$ per ct. value of silver for making bars; also when gold is contain. per ct. on gross value of gold for coining. Refining charg $\mathrm{p}_{\mathrm{g}}$ in purchases.

Bars Sold From Refinery.
$\$ 121$ cts. per standard oz . $\frac{1}{2}$ per ct. gross value to 1 ar ped for making bars.

Depostted for Dollars.
\$I 16-4-11ths. per standard oz. $1 / 2$ per ct. gross vall fo coining, when gold is contained, refining charge the sai al in purchases.

Deposited for Imported Bars.
$\$ 1$ 16-4-11ths. cents per standard oz. $1 / 2$ per ct. value of deposit for making bars.

LIST OF MINING COMPANIES HAVING OFFICES IN SAN FRANCISCO.

| divident paying mine |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| prutirlsilve munes. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  | 8, M |  |  |  |  |
|  |  |  | 307 C |  |  |  |  |
|  |  |  | 24 4 |  |  |  |  |
|  |  | IV. H. Martiu. 6 |  |  |  |  |  |
|  |  | $\underset{木}{W}$ | $\mathrm{H}_{1}$ |  |  |  | 3228 Clay 81..... |
| Ahyraid Clual, d Cis. <br>  | Allumudi |  |  |  |  | W. W. |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | A. H. Clar |  |  |  | R.N. |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Nu. Finulbiur: |  |
|  |  |  |  |  |  | d. |  |
|  <br>  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  <br>  |  |  |  |  |  | B. Kursell |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 边 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | Virgloia District.. |  |  |
|  |  |  |  |  | Virgiuin District... |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| BuLuws.... | Rux | David | 5232 Montg |  |  |  | 606 Montgom'y kt |
|  | Van | T. L. Bibuins.. |  |  |  |  |  |
| Pratinimi....Gd |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Lumenk.s. . G ane s |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Rumindu...is os |  | R. E. Raimoud |  |  |  |  |  |
|  |  | N. |  |  |  |  |  |
|  |  | W. B. Agard.. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Catrer bell.. © \& : <br>  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Clintu sigruras $G$ a s |  |  |  |  |  |  |  |
|  | $\begin{aligned} & V_{1 r} \\ & \text { slat } \end{aligned}$ |  |  |  | Calaveras county Virginia District. | E. Y |  |
| Carcega Mining Co. (anhtellationg ids | Hum |  |  |  |  |  |  |
| Crown lzad, Gsac |  | John W. Guald |  |  |  |  |  |
|  |  |  |  |  |  | S. Piukl |  |
|  | Var |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Lisxiluzio......as |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Lhulsall $\ldots$ I. |  |  |  |  |  |  |  |
|  | Sis |  |  |  |  |  |  |
| crown ponst i \& s Charias Caney. | Geld Hill |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Chtaralgus. Gid | sinte |  |  |  |  | E. B. H |  |
|  | Tele | David wi |  |  |  |  |  |
| Couk........ G \& |  |  |  |  |  |  |  |
|  |  | c |  |  |  |  |  |
| Cebar hile Tun Go. Carru Murky Cu... |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | A. H. Cla |  |
| Donvy Pri.... G \& |  |  |  |  | Esmoralda B | M. G. E.more.. |  |
| Danuag...... ${ }^{\text {dise }}$ S |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| VIskrt M. Co....... Doxat Calollise Gas |  |  |  |  |  | R. |  |
| Extarkeise Cur, Go -Evocis Consol. © Co Expise |  | M. G. Elmore.. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Esme | C. H. Wa | 612 me |  |  |  |  |
|  | ${ }_{\text {Vir }}$ | Heary To |  |  |  |  | $305$ |
| iFousidation m \& TCo Franco AMERicint, |  | Pe |  |  |  | W |  |
|  | S |  |  |  |  |  |  |
| Renly Daws. Gi \& ${ }^{\text {a }}$ | Hos | J. H . |  |  |  | M. G. Elmore.. |  |
| Febiblal Usion .... | Au |  |  |  |  |  |  |
| Esmeralda . . G \& ${ }^{\text {E }}$ Eastern SLopk M |  | J. J. cut | ${ }^{3} 27$ |  |  |  |  |
| Eunktr ......GEs |  |  |  |  |  |  |  |
|  | OEs | s. | 522 |  |  |  |  |
|  | ${ }^{\text {Esmm}}$ | Pn |  |  |  |  |  |
| Eeturim del Monte | Hum | J. H |  |  |  |  |  |
|  | Humbold | Ti L bibl |  |  | Esmora | H. C. Cha | 22 |
|  | S Esmeral | W. W. L. Liol | $:\left.\right\|_{40} ^{30}$ |  | Virginia | W. H. siartin.. |  |
| Faxis of Civide a | S Esme | 12 |  |  | Vir |  |  |
| Futron......G \& ${ }_{\text {S }}$ |  |  |  |  |  |  |  |
|  | 8 Slat |  |  |  |  |  |  |
| Fork Co. | Blue |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ${ }_{81}^{81}$ |
| Grobgilva... G \& |  |  |  | S. Fras. Sl Rasgr | lato Rag |  |  |
|  |  | w. La | 400 | Sor, Fr | Esmeralida Dis |  |  |
|  | s | Black | 724 Merc |  |  |  |  |
|  | - Gold Hill Dist | Wm. Y. G |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Gor bix Age...G \& | : Hum |  |  |  | soledar mis. 1 |  |  |
|  | H2 |  | Chay |  | Souora, Moxic | R. N. Van Brunt |  |
|  | R1R |  | ater |  |  |  |  |
|  | St | C. H. Wakelee | 612 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | . |  | 713 Montg |  |  |  | 522 Montgou'y st |

A New Work-Important to all Mining Companies.
Win. A. Andrews \& Co., a new firm in New York, who propose to open a Pacific Mining Agency in that city, are preparing a work to be issued about the last of July, embracing a synopticul statement of all Mining Co's in this State and the adjoining Territories. It will be published in pamphlet form, and 50,000 copies listributed, gratis, in the Eastern States, with the intention of bringing Pacific Minirg Stocks more particularly to notice in the East, for nvestment and information of the mass of the people, outside of the leading capitalists of New York and Eastern cities. Such crmpanies as are prominent befere the public, and those whose prospects are deemed worthy, will be ombraced in the 1st Volume. A 2od Volume will be issued to include all new companies formed subsequent to the compilation of the 1st. An opportunity will be offered to advertisers, for a few outside pages in the work. Mr. Legr Harnett is Advertising Agent, and Mr. J. A. Woodeon, San Francisco Corresponding Agent, of whom further information can be bad.
All Companies upon whom the Agents have not called, will please address us as above, and answer, as full as may be, the following questions :

1. Name of Company.
2. When discovered
3. When incorporated, and where.
4. Extent of Claim.
5. Capital Stock.
6. No. of Shares
7. Assay per ton: Gold, Silver, and Copper.
8. President and Secretary, Board of Trust's.
9. Location of Office.
10. Such additional information as may not be mbraced in answers to the foregoing interrogatories.
Note.-Specimens of Ore requested, labeled, for reference Cabinet of New York Office.
W. A. ANDREWS \& Co.,

Pacific Mining Stock Agents, New York.

SPECLAL NOTICE.
We wish it distinctly understond that all the interest which Julius Silversmith ever had in the Mining and Scienific Press, ceased in Nuvember of 1862. Efifer \& Smitta are now the publishers and proprietors.

## MININGANDSCIENTIFIOFREが

THE MINERS' I.ABORATORY.-NO. LX.
Description of the mode of dresesng copper-ores in cornwall.
The ores consist chiefly of corper-pyrites, intermixed with small quantities of other enpriferous minerals, iron pyrites aud the constituents of the vein in which the ore is found.

The ore is drawn from the shaft to about 30 feet above the surlace and taken in wagons to an anjuining dre-siug floor, where it is allowed to fall from this height on two rows of inclined bars, by which neans it is separated iuto three divisions or sizes; called rucks, roughs and smalls, for convenience of dressing. In the first or top row of bars, which separates the rocks, the bars are 4 inches apart, and in the second row, which divides the roughs from the smalls, they are $11 / 2$ inches apart.

The rocks are broken by a process called spalling, into pieces of about one pound weight each. A small hammer called a sledge, is used in this operation, which is conducted generally by girls, who carefully separate the ore from the refuse. The richest part of the selected ore termed pril s, is taken without any lurther preparation, to the crusher which eansists of two iron cylinders, or rolls revolving against each other. Ihey are worked by steam or water power, and between them the ore is passed, and reduced to a size small enough to pass through a sieve divided iato holes of $1 / 2$ inch sqnare. The preparation of the ore is now completed. The poorest part of the ore selected from the rocks, called dredge, conlaining from 10 to 20 per cent. in copper, dissemminated through a large bulk of matrix, is also crushed and passed through a sieve of holes about $1 / 4 \mathrm{in}$. squa e. This prepares it for what is called jigging of which the object is the separation of the ore from its matrix. The ore is put into a sieve of boles one-sixth iuch square, suspended in a large cistern of water. An op and down motion is then communicated to it by a break-staff, or lever worked either by girls or by steam or by water power. By this operation the lighter particles or refuse, on uccount of their lesser specific gravity rise on the top, and are carefully skimmed off with a small wooden scraper. Thie ore that passes through, together with what stands in the bottom of the sieve, is then ready for the market. The roughs from the second row of bars are $p$ aced uader a stream of water to clean the ore from all extraneous matter, so that the copper ore may, from its colour, be readily distinguished from the refuse, which is easily separated by what is termed hand picking, an operation conducted by girls who sit on tables near the stream. The picked ore by this operation is divided into prills and dredge aud treated by the wethods before described.
The smalls from the first operation are thrown on a griddle or sieve of hules $\frac{1}{2}$ inch square ; the coarse or larger partioles which do not pass tbrough, ar s subjected to presisely the same treatment as the roughs, and the fine and smaller particles, if rich are ready fur the market; but if poor they are jigged through a sieve of holes $1 / 4$ inch square preparatory to sampling.
The prills and smalls are then carefully mised together into one pile or parcei, the dredge usually formiag a separate parcel. The pile is then equally divided into 4 or 6 sub piles, or doles, the number being $r$ gulated by the weight of the parcel; if above 20 tons it is divided into 6 doles, and if below that weight into 4 only. This division into doles is effected by means of a measure called a barrow which when exactly filled with the ore weighs about $1, \frac{\mathrm{cwt}}{\mathrm{c}}$, the number of barrows is carefully noticed, and, the exact weight of one being ascertained, a rough estimate of the total weight of the parcel ean then be arrived at for the ticketing or sale.

Separating Stlter from Lead.-The Nevada Trauscript says that the Messrs Cassamayo, formerly of Nevada, have discoverd a. process by which the silver can be separated from the lead at a trifling expense, and are busily engaged in arranging the machinery of their mill; Their ledge is very rich in silver, but being mixed with lead has proven unprofitable, owing to the heavy expense of separating it The ledge and mill are in close proximity to each other and are situated about one mile and a half north-west o Wrshoe.

## A. NEW INFLAMABLE GAS.

Every new discovery in science, whi e it extends the dominion of useful knowledge, alsō offers up wider and grander prospects for luture explorations. Rapid as have been the recent advanc sin chemical science; great as are the triumphs already dne to resea ches in this direction, still, how little is actually known of Nature's grand operations! Scarcely a scientifie journal comes to us from the Elast that does not contain somethiug ne $v$ in the iuteresting science of Chemistry. 'I'he following account of an important discove $y$, recently announced, may le the entering wedge which will open up sume other of Nature's deepest mysteries. We quote from the "London Journal of Gas Lighting :"

At a late meeting of the Chemical Society, Mr. Parrett stated that. some time ago, while Mesirs. Buff \& Wohler were making some experiments upon electrolitic decomposition. they employed a pla e of the metal aluminum as the negative terminal of the batterytor the decomposition of water and, as soon as the electric current was established, they were surprised to fint that, insteud of pure hydrogen gas being evolred, as is usual with a platinum plate, a gas was evolved which iuflamed spontaneously. Uponinvestigation, this was fuund to be composed of hydrogen and silicum, the latter being an impurity in the aluminum plate. Several processes have receutly been adopted for preparing this gas. silicated bydrugen and silicate of magnesium were found to furnish the bist materials for produciog it. Nr.Hofmann recommends the folluwing mode of making it.: Take 80 parts of fused , hloride of magnesium, 70 parts of silicofluoride of potassiunt, 40 parts of sudium cut into small ppices, and 20 parts each of the chluride of potassium and sodium. These ingredients are mixed together dry, placed in a crucible, and quickly heated to redness. The product thus obtained is a silicate of magnesiu (Mg2 Si.) When this is triturated in a mortar with hydrucloric (muriatic) acid, it gives off an abu:dance of gas, which keeps up a lively combustion in the mortar. A bottleful of this gas, prepared by Ur. Hufmann, was let off by a tube, through a truagh col taining dilute hydrocloric acid, and, as it ecaped in bubbles at the surface of the liqnid, these inflamed immediately and spontaneously when they came in conlact with the atmosphere. Each bubble produced a white liame, like that of phosphuretted hydrogen. The combustion formed flakes of silica, which resembled fumes of burning zinc. This is one of the most dangerous gasses, and further investigation may prove that many buysterious fires, directly attributed to spontaneous combustion, may be due to it. Dr. Hufmann believes it is a marsh gas, of the silicun series.

Spontaneous Combustron-A shaft has heen suuk on the Home Ledge (copper) adjacent to the Alabaster Cave, in E1 Dorado county, to the depth of sixty feet, where a vein of copper sulphurets has been struck. When these sulphurets are raised to the surface, and exposed in the upper air about twenty-four hours combustion ensues, and the residuum resembles lava. The cause of the combustion has not been yet ascertained. The matter will be investigated by Prof. Whitwey, state Guolugist.

Copper from the South.- Some very rich samples of copper ore from the recently discovered mines in the liill Williams' Fork Distnct, New Mexico, were brought to this city by parties who recently arrived on the Steamer Senator.

Santa Clara College.- We bave received the "Prospectus" of this Collegiate Insfitute, containing a Catalogue of the Officers and Students for the year 1862-63; aloo the exercises of the 121 h anuual Commencement and the distribution of Premiums. The pamphlet also contaius two beautiful lithographic fiews of the College.

St. Ignatius College.-The annual commencement of St Igoatius College, of this city, takes place to-morrow. We acknowledge the reception of an invitation to be present at the exercises.

The Height of Vandalism,-Some miserable wretch, has cut the stalk from the beautiful flowering shrub in the Custrom Homse Park. Mr. Sanford has offered a reward of $\$ 50$, for the detection of the scoundrel.

THE MLNING SHARE MARKET.
The material improvemeut in the Mining Share Market, noted in our last issue, has, during the last six days, culmitrated in a perfect fever of excitement. The contivued developments in the Gould \& Curry, and the strike in the Hals \& Norercss, has produced a most remarkable effect upou the shares of all companies on or near the line of the Comstock Ledge.
Gould \& Curry advanced to $\$ 6,300$ early in the week, but subsequently declined to the same figure with which it clo ed the week previous- $\$ 6,050$. A dividend of $\$ 150$ per foot was declared on liritay $\$ 60,000$ or $\$ 50$ por fout being carried forward to the coming month. The total amuont of dividends was $\$ 180000$. There is good reason for believing that the total earnings of this Coupany, for the coming year, over and above expen-es, will exceed two and a half millions of dollurs. 'The entire axtent of the Company's ground is only 1200 ficet.
Ophir shares have been largely in demand during the week; 498 shares having chavged hands at from $\$ 2430$ @ $\$ 2700$ per foot.
Savage has fully maintained its extraordinary advance of last week. The trunsactions in these shares have not been large, owing to the firmness of holders. This Company is now taking out large amounts of bullion, and a dividend is confidently expected the coming montl. The receipts, for the present mouth, from the mine, are estimatea at $\$ 50,000$.
Hale \& Norcross has attracted consiulerable attention, at prices greatly fluctuating. 111 shares bave changed hands at \$1600@\$2250. The market for the week opened at $\$ 1600$, advanced to. $\$ 2050$, receded to 1700 , again advanced to $\$ 2250$, and finally closed the week at $\$ 2100$.
Daney has also attracted considerable attention,-with large transactions, at rates, quite uniform for an excitable market. Shares to the number of 313 have changed handa at $\$ 3521 / 2 @ \$ 365$.

Chollar has been sought for at rates ranging from $\$ 740$ @ $\$ 1000$. These shares experienced some little fuctuation' but closed firm at $\$ 900$. The recent assessment of $\$ 72$ per foot has been made to effect a thorough opening of the cluim. There is no apparent reason why this claim should not prove, equally as valuable as the arerage of other griund ou the Comstock lead.
Potosi has materially improved, though with limited transactions. It closed firm at $\$ 700$, an advance of $\$ 2001$ over last week's quotations. 'The prospect of this mine is said to be highly satisfactory.
Wide West has seriously declined ; opened at $\$ 180$ and fell to $\$ 115$, with a weak market, at the close. Silver Hill, transactions limited, at ${ }^{\text {Win}} 35$. Antelope, $\$ 225$. Utah, $\$ 85$. Bamboo, but little dealt in. Pond, fell to $\$ 20$.
From Humboldt we learn that prospecting is being done, generally with encouraging results, and extensive work is being performed on many of the old and recent discoveries. We have a table of Humbuldt Mining Stocks, in course of preparation, which we hope to be able to give sood.

The last number of the Humboldt Register says that work is progressing finely on most of the old locations. The Manitawoc, Peru, Monitor, Sargent, Delirio, National, Alto, etc., all holding at good figures; and sales this week to thirty or forty thousand dollars. The highest offer we have heard for any was sixty dollars a share for Logan, on the Manitowoe ledge. Fall's mill has been running this week on rock from the Natioual. Amalgamating now, and will commence immediately on Mars. No figuics.

## the COPPER intereat.

There is no apparent abatement in the Copper interest. Shipments are constantly being sent folward frum the Calaveras and Amador mines.
Napoleon is now shipping an average of 6 tons per day, besides accumulating large quantities of 2 nd and 3 d quality ore for concentration. The stock of this company is held at $p$ rices largely in advance of buyers views. We notice no tran-actions during the week.
The Josaphine is driving up a working adit to their vein, which they hope to reach duriug the coming month. The work is being prosecuted night and day.
New and important developments are being made in that
portion of the Newton District，udjacent to the Mokelumne river on the south，and near Cimpo Seco．A new tuwn has heen laid out there，called C＇uper Centre．The princi－ pul Company is known as the Bull Run，which has a very promising ledge．They are now raising ore，huving recently put up hoiating works，assorting sheds，etc．Quite a num－ ber of other Companies are operating in the same neigh－ borhood，from wilom we expect to hear guod reports in due time．

The Newton Company has commenced sinking a now ehaft．in urder to secure a proper degrae of ventilation for their mise．Work has heen temporarily suspended in the ald workitg by reason of foul air．

Knowledge of the Copper belt is being constanty ex－ tendid northward．We hear of late and important devel－ opmente in Yuba，and Butte connties．An impertant dis－ covery of Bluo Malachitu has recently been made near Oro－ ville，which is pronounced by competent judges，in this city， as presenting the most prumising indications yet developed in the way of Copp r Mining．

The Finreka Co．，Greeri Ledgo，Nevada County，has ten tons of ore now on the way to this city，the first shipment from that comoty．

Considerable attention is beginning to be directed to Cop－ per on the Eastern Slope．That region is undeubtedly rich in this mineral，and the prospect of the early establishment of railroud commun＇cation across the mountains，gives en－ couragement to immediate and throrough development of these mines，bitherto considered valueless for preseat work－

## ESMERALDA CORRESPONDENCE．

The varinus Ledges in Esmeralda District are being more thoroughly worked than at any period since the discovery of the mines－the resnlt of which has caused considerable ac－ tiv ty in slocks the past week．

The Red，White ard Blue，on Silver Hill，is turning out very rich rock．The old shaft is down to a depth of to fr． A sacond shaft has been sunk to a depth of 40 feet and the ledge is now over 8 feet wide．About 30 tons of rock has been taken out ready for crushing，which will pay from $\$ 40$ to $\$ 60$ per ton－the work is being vigorously prosecuted and from 8 to 10 tons per day is being taken out．
The Clan－Alpine on Last Chance Hill is yielding rich rock． The shaft is duwn to a depth of 30 feet and the ledge is 4 feet wide．About fifteen tons of rock have been taken out， Which pays over $\$ 100$ per ton．

The last crushing from the＂Ural＂yielded 852 ounces．
Fourleen tons from the Midnight paid $\$ 1950$ ．
A crushing of 35 tons from the＂Western Summit＂yield－ ed $\$ 2400$ ．

Twenty－two tons from the＂Crockett＂yielded $\$ 3200$ ．
The last crushing of thirteen tons from the＂Broderie＂ paid $\$ 1350$ ．

There is more rock being taken out at the present time Ithan can be crushed by the various Mills in the District．

Subscribe．－Are you a miner and not a subscriber to the Mining and Scientiric Press？If so，you are an annual luser of many times the price of a year＇s subscription，par－ iticulurly if you are gngaged in cquartz mining．The same amount of practical inforuation，important to miners and mechanics，which is contained in a volume of the Press ${ }^{+}$can－ not be bought fron the shelves of any bookstore in the coun－ try for the price of several year＇s subscription，Do you ever
send a paper to the＂Old Folks at Home？＂If so，and you send a paper to the＂Old Folks at Home？＂If so，and you
desire to send important information and valuable reading matter，you can find no paper that will be read with so much eagerness by them，or one that will convey to them so full an account of the real industry of the country as the Min－ ing and Scientific Press．We invite all to send us their names and four dollars，or two dollars for six months，and become patrons of the only mining puper printed on the Pa － cific coast．Those who receive a paper with this paragraph marked may understand that it is sent to them for examina－ tion，and with the bope that it may so for meet with their approval as to warrant their subscribing for it at once．It is
not our usual custom to reccive a subscriber for less than not our usual custom to receive a subscriber for less than six months；but inasmuch as we are anxious to introduce the paper where it is not now known，we will，for the pres－ ent，send the Press for three months even，on the recelpt of ove dollar，in coin or staups．It is our belief that no．one will wish to discontue the paper after being a constant read or of it for even that short perioa．

## GENARAL MINING STOCK REPORT．

## REPORT UF BIDS

At the San Franeisco Mining stook Board，
For tho weok cuting June 27， 1863.

| Namen or Companter | $\begin{aligned} & \frac{0}{4} \\ & \stackrel{0}{4} \\ & \stackrel{y y y}{4} \\ & \stackrel{5}{5} \\ & \hline 0 \end{aligned}$ | w <br> 高 <br> w <br> L <br> B |  |  |  | $\begin{aligned} & \text { 句 } \\ & 0 \end{aligned}$ | 密 | $\frac{\stackrel{\rightharpoonup}{5}}{\frac{L}{2}}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| wastos atuerss． 0 | 18，800 |  | \＄300 | 230 | 2470 | 2676 | 2550 | 2625 | 2440 |
| ${ }^{\text {ciualit \＆Curry }}$ | 4．860 |  |  | 6300 | 8300 | 610 | ${ }^{0100}$ | ${ }^{6050}$ | 5 |
| Coniforuta | \％，buy |  |  |  |  |  |  |  |  |
| Chollar | 5，6ive |  | ：0u | 550 | ${ }^{2} 20$ | 1040 | 800 | 830 | 000 |
|  | 2,800 |  |  | 600 | ${ }^{650}$ | 710 | 720 |  |  |
| Hale \＆Norcross | 80 |  | 500 5004 | 1400 <br> 51 <br> 10 | 2000 | 1550 | 1600 | 2100 | 0 |
| Siurra sevadas | 3，0600 |  |  | 51 <br> 360 <br> 3 | 65 374 | ${ }^{63}$ |  | 36319 |  |
| M．auvy | 8，000 |  |  | 1360 | 310 120 | 140 | ${ }^{3} 160$ |  | Ba |
| Sorth＇ouesi | 2，000 |  | 300 | ${ }_{30}$ | ${ }^{39}$ | 362\％ | 8218 | 100 | 50 |
| Rugers， $\boldsymbol{F}^{1} \mathbf{D}$ ． | 3，000 |  | － 2.50 | － | $\overline{0}$ |  | － |  |  |
|  | 1，800 | 1 |  | 80 | 80 | 38 | 30 | 37.16 | 40 |
| Sucramento | 1，8u0 |  |  | － |  | $67 \times 6$ | 80 | 76 | 77\％ |
| Luaurue－ | 1，800 |  |  | － | 二 |  | － |  |  |
| Lanly Rrynu | 5， 800 |  |  | 3050 | 3850 |  | － | 3600 |  |
| Iuwa |  |  |  |  | ${ }^{98} / 42$ | 90 | 117\％${ }^{\text {ch }}$ | 1：0 | 135 |
| Eil Vorado |  |  |  | 60 <br> 15 |  | ${ }^{95}$ | 14 | 100 | 100 |
| Narton | 1，600 |  |  |  | 13／2 | $\underline{16}$ | $\underline{14}$ | 131／2 | 10 |
| Suens | － |  |  | － | － |  | － | － |  |
| ${ }_{\text {Portar }}$ |  |  |  | 18 |  | － | 17 |  | 17 |
| Adrí | － |  |  | 3 | 4 | $43 / 2$ | 5 | 6 | 5 |
| Brennus． |  |  |  | － | 6 | 6 | － | ， |  |
| Cuarr Hil | 10，000 | 1 | $1 \begin{aligned} & 100 \\ & 200\end{aligned}$ | 316 | ${ }^{23 / 2}$ | ${ }_{3}^{2}$ 3 | $2{ }^{2}$ | ${ }_{3}^{2}$ |  |
| Pride of the West |  |  |  | $100^{\circ}$ | 108 | 130 | 146 | 125 | 115 |
| G．H．Quarz 31．Co． |  |  |  | － | 250 465 | － | 二 | ＝ | 250 |
| Imperi．t | － |  |  |  | 465 |  |  |  |  |
| Wide West | 2，600 |  |  | 185 | 175 | 175 | 170 | 160 | 125 |
| Aatelopa－－ | 1，200 |  |  |  | ${ }_{22}^{225}$ |  | 21 |  |  |
| E－merald ${ }^{\text {E }}$ Real Del Monte | 1，600 |  | ${ }^{1} 1000$ | 120 | 126 | 20 | ${ }_{140}^{21}$ | 2214 |  |
| Etua | 1；200 |  | 100 |  |  |  |  | －－ |  |
| Utab | 1，660 | － | －250 | ${ }^{721 / 6}$ | 85 | 85 | ${ }_{86}^{86}$ | 80 | 75 |
| Silver Hil Nevata | 1，200 | ${ }^{0} 1$ | － 500 |  | $\underline{34}$ | 32 | － | $\underline{-36}$ | 34 |
| Federal Hope |  | － | － | － | － |  |  |  |  |
| siouth Utal |  | － |  |  | $23 / 2$ |  | 2\％ | 60 |  |
| demils of cind |  | ＝ | － | － | 7 |  |  | 6 |  |
| Suubeant，s．w，ox． |  |  |  |  |  |  | ， |  |  |
|  | 800 |  |  | 50 | $47 \%$ | 50 | 50 | 50 | 40 |
| Josepline－－ | 4，800 |  |  |  |  | 91／2 | 10 | 10 |  |
| Caso－${ }^{\text {Whlow springs }}$－ |  |  | $1{ }^{1}$ |  |  |  | 3 |  |  |
| Empire |  |  |  |  | － |  |  |  |  |
| 3ina l＇rictu | 2，200 |  | － 1000 | － |  |  |  |  |  |
| Dios Padre |  |  |  |  |  |  |  |  |  |
| Nappleon－ | 2，700 | 0 | 800 | 90 |  |  |  |  |  |
| Josephine． |  |  |  |  | 35 |  |  | 35 |  |
| Ca，hrorsid |  |  |  |  |  |  |  | 2 |  |
| Utica－ |  |  |  |  |  |  |  | － |  |

Our Virginia City Letter not having come to hand，as we go to press，we cuntinue last week＇s quotations．

## VIRGINIA CITY STOCK LIST．

Corrected for the Miding and Scientific Press，Thursday，Juve 18， 1863. Virginia Mining District．

| irginia Mining Dis |  | Sierra Nevada ．．．．．．．．．．5． 55 sacram＋0h ．．．．．．．．．．．．． 65 | 60 <br> 75 <br> 15 |
| :---: | :---: | :---: | :---: |
| Lland．．．．．．．．．．．．．．．． \％$^{9}$ | 10 | Slamervek ．．．． |  |
| （lition）．．．．．．．．．．．．．．．．． 160 | 100 | Tiexas | 100 |
| $\qquad$ 0 | 5 | U． S ． T | 100 |
| Belv ulert ．．．．．．．．．．．．．．．． 35 | 40 | Ut | 70 |
| Birdsall | 30 | Ol．，Virgmin |  |
| Rajazet and Goulten Erit．．． 30 | ${ }^{35}$ | Vashingıon |  |
| Burnside ．．．．．．．．．．．．．．．． 18 | ${ }^{20}$ |  | 8 |
| Buruing Moscow．．．．．．．．． 150 Beach－Paxton．．．．．．．． 90 | 160 | zouave． | 0 |
| $\begin{aligned} & \text { Beach-Paxtol.............. } 90 \\ & \text { Blouniugdale. .......... }{ }^{90} \end{aligned}$ | ${ }_{7}$ | Gold Hill District． |  |
| Creesus（Buchauan）．．．．．．．－ | 250 | Alpha ．．．．．．．．．．．．．．．．．．． 700 | 750 |
| Cedir Hill Taunel． |  | Bultic |  |
| Cile ．．．．．．．．．．．．．．．．．．．．${ }^{15}$ | 20 |  | 80 |
| Commercial ．．．．．．．．．．．${ }^{15}$ | 20 | Belcher． | 0 |
| Consolidated Cextar Hill．．． |  | Branch Miut |  |
| Durgan．． |  | Cateuonia | 40 8 8 |
| ${ }_{\text {Empirc．．．．．．．．．．．．．．．．}}^{\text {E1D }}$－${ }^{\text {85 }}$ | 80 | Coppers | ${ }_{28}^{8}$ |
| Durauta ．．．．．．．．．．．．．．．．． 85 | ${ }_{2} 28$ | Coraka．${ }^{\text {cour }}$ | 8 |
| Grass Valley．．．．．．．．．．．．．．． 55 | 60 | Gold Hill，Big Led | 60 |
| Hazu！Green．．．．．．．．．．．．．${ }^{5}$ | 7 | Ginlden cate | 5 |
| Hartison，Vingilia Incorijo 18 | ${ }^{25}$ | Ginden Fagie（Nu．1）．．．．．． 12 | ${ }_{25}^{15}$ |
| Harrison，San，Fran．hicor．－ | 15 | Hawkeye．．．．．．．．．．．．．．．${ }^{20}$ | 25 |
|  | 10 | Hudsod ．．．．．．．．．．．．．．．． 200 | 250 |
|  | 30 | Koh－1－noor ．．．．．．．．．．．．．． 150 | 75 |
| Iowa | 120 | Leou | 75 |
|  |  | Laborin | 15 |
| $\mathrm{l}_{\text {Indus }}$ ．．．．．．．．．．．．．．．．．．． 10 | 10 | ${ }_{\text {Lucerue }}^{\text {Mary anu．．．．．．．．．．．．．．．．}}$－${ }^{\text {a }}$ | 18 40 |
| ${ }_{\text {Juniata }}^{\text {Keystoue．．．．．．．．．．．．．．．．．．．}} 25$ | ${ }_{30}$ | Narth Americaul ．．．．．．．．．． 35 | 40 |
| Kemosha | 10 | Nurth（opla | 4 |
| La Crosse．．．．．．．．．．．．．．．． 9 | 10 | Overman， | 200 |
|  | 12 | Oricu |  |
| Mante Cristo．．．．．．．．．．．．${ }^{25}$ | 30 | Omega ．．．．．．．．．．．．．．．． an $^{\text {a }}$ | －00 |
| Merelith．．．．．．．．．．．．．．．．． $3_{5}^{5}$ | ${ }_{6} 6$ | Simincess ．．．．．．．．．．．．．．．．．．．．．．． 15 | － |
| Massilou ．．．．．．．．．．．．．．．． 10 | 12 | Sweory |  |
| McBee |  | Stepreus |  |
|  |  | Uniou．．．．．．．．．．．．．．．．．．${ }^{40}$ | ${ }^{45}$ |
|  |  | Uucle sam．． | 5 |
| Molegan ．．．．．．．．．．．．．．．．． 10 | 12 | Yolo ．．．．．．．．．．．．．．．．．．．． 25 | 30 |



ESMERALDA STOCK LIST．
［Corrected for the Mining and Scloutile Press，June 22，1882．］


Considerable activity has been manifested in the Stock Market of Esmeralda District，the past few duys，and a num－ ber of claims have changed hands at an advanced fgure．
Ten thousand five hundred ounces（ $10,500 \mathrm{oz}$ ．）of hullion has been shipped from this District within the past fonr days and the amount in preparation for the next ten days will far exceed that figure．

## THEATRICALS．

McGuire＇s Opera House．At this place the week has been chiefly occupied with East Lynu，one of those intrnse－ Iy sensational pieces，which at times arrest and absorb tho public interest．Considering the painful moral of the play，it may，perbaps，be considered an indication of the improved taste of our citizens，to find the house crowded ev－ ery night to its utmost capacity．Apart from the merits of the piece，however，the performance has been excellent，all exerting themselves to justify the patronage，so liberally ex－ tended by the intelligence and respectability of the city． So far as we catch the expression of public opinion，it is one of entire satisfaction，particularly with Mrs．Hayne，Mrs． Perry，Mrs．Mowbray，Messrs Taylor，Anderson，Mayo and Thorne．No doubt the Management are equally satisfied． On Friday，Mayo，and Saturday，Mrsi．Hayne，took their bea－ efits．
Eurera．－At this little temple of fun，there has been nothing especially new since our last issue，except the bur－ lesque Opera of＂Oh Hush，＂in which the peculiar talents of the troupe appear to advantage．The singing and perfor－ mance，as usual，have been good，and the house crowded to excess．We shall endeavor to aid this success；for the min－ strels，in every respect，deserve the patronage they enjoy．
Dashaway Hall．－Do not forget the Histrionic and the Ball at this place to－night．Let those who can afford a dol－ lar，go by all means，and we warrant they will not be disap－ pointed．

## J. F. \& H. H. SCHAFER <br> BEDDING and FURNITURE,

Blankets, Comforters, Sheets, Etc., Etc. Nos. 5
(Near Clay,
This Establishmont is now geverally known to be th Cleapest Ilace in the City for gooll Bedding. Branch Store. ...... Rroad St., Nevada.

## Pacific Mail Steamship Company.

N OTICE
A Rangenirwis quve been mand
Gold, Silver and Copper Ores
can be furwarded under through Bills of Lading from Sun Francisco to England, at reasonable rates. For fur 29-tf Corner A. B. FORBES, Agent,

## Miners' Foundry

 MACHINE WORKS, Enat St., between Howard \& Folsom, SAN FRANCISCO.FVERY DESCRIPTION OF TRON AND BRASS MACHIin the state of Catitornin, will be furnished with dispatch at the Miners' Foundry and Machine Works, as: Steam Eugines and Builors, Flower, Saw and Quart Particular attention will be given to the manufacture of Machinery in Scetimnk, designed for places of difficuit access. Various models of Quartz Crushers, Amalgamators a
bition

Parties desiring to test their ores practically, it smatll quantities will be allorded ample facilities, free
cost.

All parties desiring accurate and highly finished draw ings and Superior Machincry, at most reasonable rates
are cordially invited to call before contracting elsewhere HOWLAND, ANGEL \& HING
San Francisco, February 23, 1863.
W. BOHM, INVENTOR \& PATENTEE THE SUBSCRIBER EAVING OBTAINED LETTERS PAT ent from Washington for an improvement in the nossesses several very inportant improvemonts over any other in use.
The invention haring been carefully examined at the ment, and letters Pateut bave been granted for 17 years It excelis all nther huekels to

Thernimess, Strength and Appearance. The Public is respectrally invited to call and exami
this Buckle at the Jewelry Establishment of BRAVERMAN \& LETY,
621 Washingtod street, San Francisco
607 Montgomery SLreeet, San Francisco
118 I Street, Sacramento
Every Buckle sold will be guaranteed as to its Steengt and Durability
W. BOHM, Patentee.

## Gird's Budding Kife,

$T$ He ATTENTION OF FARaERA, HORTICCLTURISTS Impleme Cutlers, or manufacturers of Horticultural
anment, are reccrered to. the above tineutuou. For 3mplements, are reicrrad to the above nvention. For
description and engraving see Binng AND Scrextmic Press No. ${ }^{24}$, vol.
State, Territory
conable prices.
Address, Address, Publishers of Mining \& Sciontific Press, sepl-3m

San Francisco

JAMES PHELAN IMPORTER AND JOBBER, Wines; Liquors, Etc., Etc.,
P. DONAHUE, H.J. BOOTH, C.S. HGGENS

UINIOIN
IRON AND BRASS FOUNDRY.
(The First Established in the state.)

HAVING ADDED TO THE SEVERAL Establishment is pow the rocent Extentiveroved Toois, this
The undersigued are prepared to furnisla, at short no tice, Loctnotive. Marine and Stntivilary Engines, of ev ery size and description. BOLLERS:
Lncomotive, Flue, Tubular, Uprightand Cylinder, furnishod with or without engines, complete. Hachioery and Costings of every description, Saw
mills, Grist Mills, Car Whepls. Dervick Irons, etc. QUARTZ CRUSHING BATTERIES, Embracing a great variety of Stamp, Mortar and Cam
AMALGAMATING MACHINERY, Varney's Improved Patent Pans and Settlers, Wakely
Pans, Amalgamating Tubs, Plaisted's Grinders, Chile
Mills, Concentrators, etc., etc.

## MINING PUMPS.

Cornish, Lift and and Force Pumps, from four to
(ight feet stroke, with Pipes, Bob Mountings, and Gear ing complete.

HOISTING DRUMS.
For Shafts or Ioclines, with clutch, friction or V cone Sole dgente and Manufacturers for the Pacigic Coast, Steam Pumps and Fire Engines.
All Contracts and Orders executed with promptness
je dispatch, and at reducen prices for Cash.
je21 DONAHOE, BOOTH. \& CO.

## Giffards Injectors,

HOR SUPPLYING BOILERS WITIG FEED WATER Fh without Pumps No Mill or Mining Company Seud for a Circular.
je22 Cor. Pine and FrontSts, San Francisco.
I. C. E. KLEPZIG \& CO.,

GUN MAKERS, DEALERS IN GUN MATERIALS,
733 Washington street, San Francisco
One Door above Kearney strect
Repairiog done in a workmanlike manner at the shor Gildng, and also Silver Plating, by E. Ekland. je21

## CORNELL'S

## EXCELSIOR GALLERX,

650 Washingtonst. Threc doors below
Haviog refited the ahuve rooms the audersigned is how prephred to firnish the public with a superior style
of Picture, at a lower price than ever before offered in

CARD PICTURES As I bave every facility for producing these heantiful ictures, su all th
he price to \$3 Per Dozen and \$2 Per Half Dozen ! Large eize Photogriuphs. \$3-Extra copies $\$ 1$ each. AMBROTYPES in all Styles and Prices.
OLD PICTURES copied with care and accuracy, in any cyle desired, Particular atteation paid to pictures of
Children, Piclures painted in oil or Water Colors, and retouche
in Indaa Ink by a compatunt artist.
je 22 in ladia lak by a competuat artist, R. H. CORNELL.

## BAUNCHEIDTISM,

## The Preserver and Producer of Life

 THE EFFRCT OF BACNCHEIDTISM AS A METHOD OF 1 curing distase, is a "Thit accompli", in meticine dicidftism already. mith an extraordinary patronage, and is acknowledged by all men of science that BAE cheiomism is founded on a rational, scientific basis. ralysis su consequence of A poplexy. Podagra and Rhen matism of cvery description, whieh kind of complaiut can fide their ouly relies by the above method. Especielly can it be applied successfully, in the spring of Dr. Borvhere io san Francieco, and Dr, C. J. Mrars is sacramento, are the only ducturs in Culifornia who havethe original eries of Dr. Rasecchmon and his origina oil. Dr. Borchers is also in possedsion of origian letter
of the inventor of the methoit by which be can prove of the inventor of tbe method by which be can prov
that he is berfect master of the latter.
IR. . . . BORCHERS

P. M. S. C O.

PACIFIC MALL STKAMSHIP COMPANY':
 FOR PANAMA.

The following Steamshipe will be dispatched in the
month of May, 1863 . July 3a, -

## July 13th,

July 23a,

Will leave Folsnm Street
AT 9 O'Clock, A. M., PUNCTUALLY,
And connect, via Panama Railroad, at Aspinwall, with For Freight New York.
A. B. FORBES, Agent.
je4 Corner of Sacrnmento and Leidesdorf sts.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that mating purposes to auy otber in uso.
The most important principle connected with the opeprocess from thrt of exuracting the af the trituratiog sand. The chict cause of loss of the precions metals ari ses from the passing off of the same in combination with the guicksilfer, during the proces of trituration, and in
cleaning up. By the introduction of the Semaratiog Pan cleaning up. By the ion this loss is entirely aroided. In
to $f$. low the trituration
workiag these machines there is no appreciabie loss working these machines there is do appreciabie loss
zuicksilver, and hence none of the precious metals. 7uicksilver, and hence none of the precious metals.
Where these lans have been introduced and operater Where these Pans have been introduced and operated
py the side of others on sands from the same vat, the oy the side of others on sands fronz the same vat, the Wheler Paus have uniformly gained a large percentage
ol metals over its competitors, on well as a still larger parcentage in the amount of work performed. *** These Pans man be seen in daily operation, at the Miner's Foundry, on First street in tbis city, where al
nterested are invited to call and examine for themselves. 2016-tf

ZENAS WHEELER.
A. ROMAN \& Co., Wholesale axd Retail
Book Establishment, $41 \%$ and 419 Montgomery street, SAN FRANCISCO.
Ordera respectfully solicited and promptiy attended to Treatise on Metallurgy, Couprising Miningand Gen eral and Particular Metullurgical Operations, Etc. Etc. By Frederick Overman.
Clum of Metallurgy, or A Practical Treatise on the Chemistry of Metals.
cords of Mining and Metargy, or Facta and Memoranda for the Use of the Mive Agent and Smelter By James Phillips and Johil Darlington.
anual of Metallurgy, more particularly of the precious
metals; but includ ing such others as are employed
in dental practice.
Pigrot ou the Chemistry and Mining of Copper. Practical Bineral Assay ing and Mining.
Gold Minog and Assaying by Yhiog.
Gold Mining and Assnying by Phips,
Miners' Cormanion and Guide, compiled by Silversmith Assayers' Guide; or lractical directions to Assayers, $\mathbf{M}_{1}$
ners and smelters.
Pishell
Practiga Are and Silver Mines, by Pro. Blake.
ilver Ores
Ure's Dietionary of Arts, Manuractures and Mines, Ure's Dictionary of Arts, Manuractures and Mines.
Weisbach's Mechanics of Mr.chinery aud Eugincering Weisbach's Mcehanics of M.chinery and Eugincering
Nuvillo's Hydraulic Formula Tables. Fresenius' Chciniral Analysic.
Together with imany other wo

Books and similarinnes A. ROMAN \& Co.

## P. M. STEAMSHIP COMPANY.

 NOTICE.
3d, 13th and 23d of each month.
Then any of the above dat sfail on Suudiay, the steam
A. B. FOREES, Agent.

## Wm, P. TAAFFEE,

importer and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cop. Front ana Sacramento streets,
San Francisco.

REYNOLDS
Patent Cut-0ff and Governor, FOR STEAM ENGINES.

127 of these Invaluable Machines,
ARE NOW IN USE
In Callformia and Novada Territory, giving a perfectly
Saving 20 to 65 per cent of tho Fuel.

## Steen's Improved Governor

 Is the CHEAPET, SLDIJIEST and QUJCKEST to actand least liable to get out of order of any Govornur in
use. It can be feen in oneration at the Giden State Iron use. It can be reen in operatiou at the Golden State Tron
Works, and at the Stoue Breaker, fool of Market Street,

## Clark’sSteam and Fire Regulator,

## ney or Valve in the Blast Pipue by the pressure of the

 steam in the boiler. It will regulate thu pressure to a pound, on the square inch. It cassor get out of orderand any person can put one up in an hour after the damo

## Ingersolls Patent Drill Press,

 With which drilling cau be done the same as with the can be done four times as fast. The haudle can be wor-
## Folt for Steam Boilers, Pipes, Etc..

Steam Engines, Boilers, Pipes,

## Hydraulic I'resses, Shafling, Fulleya, Etc., at the luweat

## Anti Incrustation Pawder,

## Sure kemedy for Scale in Steam Boilers, without injn-

 $y$ to the iron. In use for the past EIGHT yoars.Cottell \& Co. Sun Joso
L. A, Boolh, Est. Virginia City,
and 2,ooo others in tho United Siat
E. T. STEEN AGent

No. 33 Fremont Street, Seu Francisco.
IIINING \& SCIENTIFIC PRESS. THE ONIT MHNING, MECHANICL AND

SCIENTIFIG PAPER ON THIS
THIRD YEAR! VOLUME VI-NEW SCRIES!
A new volume of this extensively circulated paper commenced sept. 11,1862 . It is intonded that overy
number shall bo replete with information concerning number shall bo replete with information concerning fining, Scientitic, Mechanical and Industrial pursuits,
together with several original engraviugs, of new invent tions, etc., preparod expressly for its columas.
This paper is devoted to the above purposes, together with the interests of Science, Arts, Agriculture and commerce, and 20y general iuformation that may be of in prest to the reader; and it is the intention of the proprictor to spare no pnine or expense in making it cegual
in interest and valuable information to any paper yet published

## The Mining Interest!

Will find it of gruat ralue, as it will contain all the ows appertainmg to Mining, the prices aod sales of Mining Stocks, new inventions of Machinery adap ed to that
purpose, and of everything generally that may be of serviceto the Miner

## The Inventor

Will ind it an excellent medium for the purpose of briuging his invention into notice, of ascertaining the progress of invention in this and other cmuntrjes, and also of recciving any information that may be pecer ary in obtaining his patunt, the proprivtnres haring had
great expericnce as Pntent Agents, together with facilities at Wasbiugton that enable them to outajn Patentu

The Mechanic and Manufacturer ! Will be greatly beucfited by its perosal, as its columps will from time to time contain origiaal engrav-
ings of new machines and inventions, together with a large amount of reading matter appertaning therelo.
We are constantle receiving the best scientific journals from all quarters, from which we shall conthue to extract whatevor may be of benefit or interest to To Chemists, Architects and Millwrights. This journal will bo invaluable. All ncw discoreries in Chemistry will be given, and a large amount of infor-
mation of great service to Architeets and Millwrights will be found in our columus. The Farmers and Planters will not be neglected, engravings will be given of
agricultural implements, and the farming interest generally will be amply discussed.


D ESKS
Office Furniture, OF ALL KINDS...... FOR SALE BY

JOHN WIGMORE,
No. 423 Cabipornia St., San Francibco.
OFFICE Jorbing, uf all Kindd, utteuded to.

PALMER, HANSCOM \& EO., GOLDEN STATE IRON WORKS,

No. 10, First street, San Framelsco, Furnish Castings and Machinery of all kinds Also :
Grnuinz Witze Iron Shoes and Dieb. PALAMKR, HANSCOMB \& CO.
To Quartz Miners.
K.nox's Improved

AMALGAMATING PAN, PALMER'S PATEN' S'IEAM CHEST. THe above commanay securis the most

 catchiug . Hoating kollt and walver, kiown to bu other wise lose Hade exclusivoly by bincon \& Co.

Nos. 19 \& Z1 First street, San Fruncispo
 Lombs for the insile of Ammaluating Pana or Tubs, and arn cantidnoid against making, buyiug, using or srlitur
the same without his cunseal.
W. A. I'ALSIER.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street.
$0^{p}$ TIR SILVER MINING STOCK, GUTLD \& CURRY MLNING STOCK,
CHOLLAR MINING STOCK,
CALIFORNA STEAB NAVIGATION CO's sTOCK,
BOUGAT \& SOLD.

## DEETKEN'S

Chemical and Metallurgical Works On San Bruno Road, Islais Creek,

Gof.n bearing sulphurins worken at reas


 mill owners. No power nor clean witer vequired for he purpose.

## LEWIS COFFEY AND RISDON,

 STEAM BOILER AND SHEET IRON The only oxclusively Boiler Making Establishment onthe Pacific Cuast Owned End conducted by Practiral Boiler Makbors. All orders sor Now Work, the repairing of Old Work, executed as ordered, and warranted as
to quality. Old Stand, corner Bush and Market Stree Oypasite Oriental Hotel, San Fraucisco, Cal.
J.
J. N. RISDO

## rHEODOR KALLENBERG

Maker of Models FOR INVENTORS.
Macicnis, mathematical, optical and Puilosoph-
 Repairing of Machinery promptly atteaded to.
No. $\mathbf{4}$ Sansome street, corner Maxket,

International IIotel,
Jackson Sthemt, -.....- San Fbancisco
[A few duors above Montgomery.]
FIREPROUF BRICK BU゙ILUING.

## Hoxt consentent to the

OPFN ALL NIGITT.
${ }^{5} 5 \mathrm{c}$ City I Iailroad Cars Pass the Door. REDUCLIUN IN PRIUES.

Flow bathing Romes athectiod to the Rarber sthop. Warm and Cold shewer Bathas Freo to Guests.
 nud dir. finch roum is furninhed wille a frst qualiz) Patent suriag bed and hair mantresies. The moteryational offers te guente the kreatest number and

Bres Furnished Famiry Rooss; and skm as gmon atalla as any house to the city. 1 ane determinel hat the Ixtrexariosal shall bo the

 Frimoples.
F. E. WETGAN'T, Propisietor.
Tremont ETouse,
418 and 420 ..... Jackson stret,
T
THI FINE, FRELIPOOF BLILDING OFFERE MANY
only hatf n block from the lost Oflue unt Custum House,
and about the sane distance from the principal ylaces of
The City Railroad Cars pass the Door.
The Houso is conducted on Temperance Principtes,
Which secures to our gueste quiet.
$\begin{aligned} & \text { The pices for buard and linoms are very munderate- } \\ & \text { by tho day, ment or week. Wk surders a chin fion Alh }\end{aligned}$
F. E. WEYGANT', Propriotor.
For the accommodation of my many guests I bave ta
ken und refurnished the Istrilwsmuxit. Hotst, and will
cary y on tho tro hausers in connection, so that Travelers
wishiug to put up at either hase, may take the Tremont
$\begin{aligned} & \text { or Internationa Hotei Coacl and be takeu to cither House } \\ & \text { with their baggage, FREE. } \\ & \text { F. E. WRE XGANT. }\end{aligned}$

## Volcanic Smelting Furnace.

 teuliug tomanicul meroperties of this Furnace, and in-
 nep riating metuls from the sulphureth, can obtain al
needed explanatiou and advice $u$ regard to the same, nud needed explanation and advico turerard to the same, nud
te terms of asco of rights to use he same, on applicution
Col $J$. Col J. D. Stevenson or T. Ogg shaw, or by letter to the
proprietress through the Pout Ofllce of San Fraveisco.
 No. 614 Sherchatil sitreet, ur at the oflice of T.Ogg Sbaw n Branusn's Buildog, Moutgomery atreot.
The time required tor reducing ores by this Furnace
is from three tueight inurs, anil the amount of fuel only is from three tueight inurs, and the amount of fuel only
oun-tenth as much us is consumed by othior processos.
The process of condonsation is applied to this Furnace which will save all tioose portions of precious metall
whicb usually eecape iu a volatule form.
Thu attelltion of all interested in tho subjeot is requested
to exnmino the moportant resuita obtained Dy this pro. cess.
Parties wishiag will be allowed to orect a trial Fur
pace of a c.lyacty for amelting une ton of ore or morv, on riguing culd ollightion to pay the usual fec for the rigut to ase it, should ihey continue to muko use of the invention meh 16 MRS. E J. HALL, M. D., Proprietresg.

## LEANDER RANSOM,

Civil Engineer AND
SURVEYOR,
Having been connected with the public works
of the State of Ohio for 20 years, and the public of the State of Ohio for 20 years, and the public ALSO
state locating agent.
And as such having the aalo of 600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\mathbf{\$ 1 , 2 5}$ per Acre. Torms-Twenty por cent in eash and the balanc
on a crentit of seyeral years. on a crentit of several years.
orFce . Secend foor of Lexpress Ruilding, N. E. cor
ner of ner of Montgomery and California atreets. oct.3m

The Occidental Hotel Open for the Reception of Guests.


 couventeuco of the public geuerally, haviug ar

News Stand, CABINET FOR MINERALS

> A Branch Tolegraph offico, LEWIS LELAND \& Co. LEWIS LELAND \& CU. P Proprietors.
San Fraucisco, Jan. Ist, 1863.

John R. Sims,


Oregon street, between Washington and Davis and Fro and Jackson streuts, Sas Francieco. Manufaoturers of Fire Proor Doors and All orders from the interior Oregon, Washington T'urritury, Vancouvec's Island, British Columbia, or any place ou the P
and dispatel.

Mr. Sims Appreciates the Past liberal patronage of his friends, nud trusts that he may
continue to merit it in the futurc. For to merit it in the future.
For the informition of Strangers he would cay that he feuls coutident that his experi-
ence in his preticular calliug is surpassed by none on ence in his particular calliug is surpassed by nooc on
this const, which his superior work, sent to almost evothis coast, which his superior work, sent to almost eve-
ry town in this state, Oregon, also Vietoria and tho Sandry town in this state, Oregon, also Vietoria and the Sand-
 of second band shutters for rale at low rates. apis

## NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. or Welbb, san Francieco.

FULTON FOUNDRY \& IRON WORKS

## HXNCKLEX \& CO.,

Steam Engines,
Quartz, Fleur and Saw Mills; Cast Iron Fronts, for Bulldings, Mining Pumpr, and all kinds of Machinery, Etc., FIRST STREET,
Brtween Market and Mirston..............San Francisco
*** All kinds of Tron aivd Brass Castings fumíghed at short notice. Every style of Finghing to Irou when
cast. Repairiug of Machinery peatly done. cast. Repuiriug of Machimery neatly done.
Pattrken Making in all its various forms. D. B. Hincklex. Wm. E. Worti. Wm. A. Fibld.

## W. T. \& J. GARRATTT,

 City Brass and Bell Founders Cor. First \& Market sts., San Francisco
 POSES, Tron steam pipe furnished with fittings, sce. PCSE, Iron steam pipe furrlished with fittings, "Me. ratt's Patent Improved Journal Metal.'

SQUARZA'S PUNCH.
FIRST PREMIUM
t tee sacramento agricultural state fair FOR 1862.
ALSO; FIRST PREMIUM
the San Francisco Bay District Agricultural Fair, 1362 Manofactory, whormsals afd rbtall,

No. 44 Leidsiorf street,
Opposite the What Cheer Houso, San Francisco.

## To Mine Owners,

## Parties having a Good silver Min

 Machuery to work it for an Imtorest in tho Mine Willdu well tu apply at this officu. No orgauized com
## 50 lbs. MARLNE and

Hire-Proof Paint, M Wuractcred by the pacific metalandelical
 or fittons of shipe it in equal to a coas or stone, and
quite equal to Coppure, no worms will ever effect i , and cleaper thut any othur puiat.

## DIRECTIONS:

For Docks of Shups, use two parta Mineral Palnt, one purt Whitc Lead, mixw illi Liaseed Qil.
For Bot toman of $V$ Vebsels, une out part ground sulphur For Sothms oi Persels, use oun part ground sulphur Fur sale by all Ship Chundidera and Tradeamen, in boxes of 50 liss. oach, or by twe Pacific Mulallurgical Works.

## as POUNDS FIRE-PROOF PAINT.

When used on Ronfe, Buildinga, is Fences, it is equal fire Prour, und cuastink less than any palut perlectly DIRECTIONS:
House :-Mix three parts Mineral Paint with ono par
white leal, Hisu wilu Lamsed vil: If u ligator colur is white leat, Hitu wilh lumsed vil: if a ligator colur is ranted mix less paial, more meral Paint, one part whit Lead; mix with Linsect oil. Put in hick on a tio Roo as one coat when properly appliadwill lust threo years.

## G. T. FovQce, Superiatendeni

WULKS, North Beach; Offce, 509 sace ramento st., Snn Francisco.

## WRIGHTMS PICKS.

JOHN WRIGHT, of Sacramento, has establusted hmmJelf in San $\begin{gathered}\text { rianctise } \\ \text { for the manufacture of evory }\end{gathered}$ deseription of 1 ICKS, of the best material, at reducod prices. Pics Eyss of the beat iron furnished in any quan tity, at low rates" Orders from the country promptly attended to. N. B. - None genuive ulless stannped with my name. JOLN WRIGHT, 511 Market street, Oppoaite Battery, San Francisco.

## REMOVAL.

OFFICE OF THE PACIFIC METAL-
Havingical ofilee is removed to 509 sucramento street Having entarged our Works at North Beach, wo ara
nuw euabled to reduce from 10 to 15 tons of Sillver or now euabled 20 red
Gold rock per day.
Gold rock per day.
Geld and Siver ore, and Sulphuret Assayer
versmiths' sweepings reduced or purchazed. COPPER OBEX-Highest market rates. cash, for shipmeata. C . 509 Sacrameuto street, near Sanbome.

## WANTED,

GOLDQUARTZ SUITABLE FOR CUTTING JEWELRY,

By Frontier A. DEviercy,
13 ap
487 Pine atreot, San Francisco.

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN,
No. 422 California street, corner of Leidsdorf.
Drawings of Moders made for parties applying for paon is at Washiogtou or London. mar

## HAYNES \& LAWTON,

mPORTERS AND DEALLERS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery,
CIOCKS ,
Silver Plated and Britania Ware,
ETC., ETC., .ETC.
NO. 516 SANSOME STREET, [CORNER Of Merchant,]

## THE:

## BRYAN BATTERY.

The vast interest itvolved in the reduction of ores on Machinery employed for this purpose should be of Ithe mose Effective, Ecoonomical and Durable Character. It may be safely suid that Milliong of Doltiars have all-
rexdy been wasted upon the variuns experiments in this ready been wasted upon the variuns experiments in this
class of Machinery, and it is a fuet well known to all Who have lad any practicui experience in ihc matter, that every new procoss developed darnug he past twelve years, haf been
Stump Battory

## ALONE STANDING THE TEST:

This, with the Improveraents which Exporience has suggested, is now regarded, by common consent, 48 the
only reliuble

## METHOD OF CRUSHING ORE.

The Bryan Batiery, as now coustructed, is bplieved ocombiue all the improvements whot the experienc

## EXCLUSIVELY ADOPTED

by many of the most prominent Mining Companies in the country, aud have been, for the three yast yoara, suband ill every case has been pronounced

Effective, Substantial and Reliable.
They are now pretty extensively used throughout the mineral reginns of Californin, Nevaca and Mexico, and equalled-iaspy piece of machinery.
Thesc Mills are constructed almost entirely of Tron, aud dryness of atmosphere, coumon to all mining loca lied. They are adapted to

## BOTH WET AND DRY CRUSHING,

and are warranted to reduce, with the same weight of Stamp, 25 per cent, more rock than any other mill in use. Each Battery is complote in itself, and forms a
perfect mill-while any number of them can be added at a subseqent time-lhus preserving the symetry and niformity of the Mill

As an evilence of the increasing favor with which Celabrated Ophir marsed, we would mention that the Celebrated Ophir Company first introduced them in Batteries, each subsequent year, until they now hav Nineteen, running Seventy-six Stamps,

They are perfectly fitted and set upat our Works, be so that they can be put un and set at work in ten hours after arriving on the ground. They are made of two siea with four and bive Stamps, etc. The Four Slamp thery weighs, when complete; ,ubout 6,000 pounds,
and the Five Stanup about 7,000 . The Mortar Bed, when and the Five Stamp about 7,000. The Mortar Bed, whe desired, is cast in sections, so
ed over any meuntan road.

We anmex the names of a few well known Companies Who have adopted them-running from four to seventy five stampseach-to whom reference is made
Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co.i, Vi:ginia City,
Tajo Mining Có: Mexico,
Sheba Mining Co., Hamboled.
Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co.,, Owen's River,
Union Quartz Co., Aurora,
Triunfo Mining Co., Mexico,
Napa Quartz Co., Aurora,
Petaluma. Quartz Co., Gold Hill,
Francis Mellus \& Co., Slate Range,
W. R. Churehill \& Co., Mexico,

Willow Springs Co., Coso,
Hews, Howe \& © Co., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicaragua, Gibbons \& Olayton, Esmeralda, Smith \& Clouser, S. F. Reduction W.orks. Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY GODDARD \& CO., At the Pacific Iron Works, SAN FRANCISCO.
os 125 to 136 First street, and 186 to 144

To Prospectors and Mine Owners.
J. H. CHURCHILL,

Assayer \& Chemist,
SAN FRANCISCO.
E. C. DAKE, DEALER JN
CLOTHING,
Gentlemen's Furnishing Goods; ALSO
HATS, CAPS, ETC.
At the New York Clothing Stere, 541 \& 543 Washington st. Montg'my Bik je] OHA No. 145.
E. T. PEASE, R.S.CORNING, SAMLE. BOWL.EY

PEASE, BOWLEY \& CO., Real Estate, Stock and Exchange BROKKRS,
621 Montgomery street, San Franciseo.
Legal Tender Notrs and Mining Stocks, BOUGHT \& SOLD.

PUMPS!

## HARRISON'S

California Lift and Force Pump, Without valves or packing,

Suitable for Mines, Fire Eagiues, Wreckiog or Irrigat ing. luis is the Cheapest, Lightest and Lnost Durable,
and leusr liable to get out of order, of any Pump yot in cated.

## ALI SIZES;

Capable of throwing from oNE HTNDRED
THOUSAND Gullous per Mioutco-Fur sale by
C. H. HARRISON, Phomix Oll Woris,
Je-15 517 Front Strect, San Franciseo,


DR. H. AUSTIN, DENTIST,

## No. 624 Washington street,

Between Montgomery and Kearny, (over San Francisco Ballas.)
I have recently received from London a New and Eeautiful Vulcunite (India Rubber) for Artifcial Teeth which is far superior to any other ever used, It is light
cleanly and durable, and of a natural color. Tlie cheapest and best nateriul for tumporary (und in many cases) permanent sets. All aperations thoroughly performed and at reusonuble pricer.

## L. F. LELAND,

## STOCK BROKER,

## No. 681 Clay street,


Member of the San Franciseo Stock and Exchango Board je-29

## New Bedford Copper Company

## The indersigned having been appointed <br> 

Sheathing Copper;
Brazier's Copper;
Oopper Bolts;
Oopper Bolis;
Coppelr and Conposition Nams;
Which they offer to the Trade at the lowest martet


Napoleon Copper Mining Company Gapital stock.................... $\$ 1,620,000$. 2,700 Shares---\$600 Per Share.
Length of Lend 2,700 Frent; ] neation of Mine, Gopher District, Calaveras county; It
October $3,1862$.

President Secretary.
Treasurer

-...........
F. MacCRELLISE

Superintendant................................... RICHR BROWN YOWNG
F. MACORELLISH, TRUSTEES.

I, fRle.vbach, of Greeubere Erienbach \& Co
J. MOULDER, of A. J. Muulder \& Co.
G. MROW N, of Grover \& Iaker S. M, Co
,C. DUNCAN, of Druean \&\& Co.
i. ALDEN. U.S. Cenmissary Department.
W. TUCKER, of J. W. Tucker \& Co.
W. A. WOODWARD, of Ala Calilornia.
S. E. HOLCOMBE. of Holcombe Brothers. Office of Company, No. 420 Montgomery street. je29

San Antonio Gold and Silver Mines, Lower calipornis,
FORWARDING \& IITNING AGENCY.
SAMUEL SMITH,
OFFICE-North West Corner of Front and Clay Streets, Sar Francisco.
MINING MaCHINERY AND MERCHANDISE FOR resilent Agent at Suu Antomo, and information furnisined regarding auy claim., in that Territory, on Commission.

## PEOPLE'S

Steamiship Line!
Connecting California and New York 50 Miles Shon ter tnan any other Route: The Fast and Favorite Double Eugine Steamahip,
MOSES TAYLOR, J. H. Blethen. $\qquad$ will be dispatelied for
SAN JUAN DEL SUR,
From Mission street Wharf,
THURSOAY, - - - JULY 23, 1863.
Punctually at $90^{\prime}$ clock, A. M., on
Connectiog at GREYTOWN with the Splendid Steamshi AMERICA .......... 2500 TONs.

Reduced rates of Passage and quick trips are secure y the re opeming of the Niearagua Rute. These Steamers are unsurpased for speed. cleanliness and anfesy, and every effort will be made to insure the mort of passengers

## FOR SALE.

## P

- ressia mon ming pans, Rusia Iron Quartz Screens for Mulls
Portable Furres ; Culdron hetlles Portable Furges; caudronkelle both Frame and Laft ; Lead Yipe ; Rubber Hose ;
Wrought trou Pipe;
Bibt Cocks; Couplingn ; Play Pipes; Coaking Stoves aud Hea iug Stoves; Tin Plate: Shect Irnn ; Sheet Copper
Fruit Cang of Varinus Kinds ; Fruit Cans cf Various Kinds;
Lard and Buther Cans of aull Sizes;
Iron Wire: Brass Wire; Copper W Iron Wire ; Brass Wire; Copper Wire ;
Copper Rivets and Burrs; Lrua Rivets ; Etc.

We are also manufacturers of the
UNEQUALLED
MONITOR COOKING STOVE
OR RANGE,
For Hotels.
To which we call particular attention.
je-29
tay, BROOKS \& BACKUS.

## The Pacific Mineral Compnay

Copper, Salver, Tin, Nickel, Cobalt, Zinc
Lead, and Sulphurets contarning Gold.
Due accouat taken of all valuable metals combine
or.
Farties owaing undeveloper mines and desiring capital
oprospect the same will receive askistance, if, upou ex-
to prospect the same will receive askistance, ir, upou ex-
amination, such leads aro deemed suflieiently valuable
to justify such expenditure.
OFFICE, No. 1, ODD FELI.OWS' HALL,
jel-t! Moatgonnery Street, SLa Francisco.
A. C. MORSE, Mining and Real Estate Agent,

HAVING MAD की ATEANGEMTENT 1 a Misers. Martin Fsul, one of the mrinciph and SELI, overy description of Mining stocks in Esme ralda District

## MYERS d DAGGETT'S <br> Mining and Stock Exchange, No. $23 \frac{1}{2}$ B street, Virgiola City, N.T. <br> Mining Slocks of All Kinds Bough \& Sold. <br> Business connectod with Mining Stocks of every deseriptiou promptly and confuteutially attended to. <br> *** Abstracts of Titles Furnished, Etc.

MARTIN \& Co.,
OFFIEE--284 Montgnmery Street, Up Slairs, WILL CONTRACT FOR THE

Purchase of Copper Ores,
Ansaying 8 per cent zod upwards of Copper to the Ton. We will make ADVANCDS upon Ores of COPPER, TIN and NIMKFI.
and NICKEf.
Snchs will be furnichefi and Freights Paid on all con-
aignments if desired by the consignors.
Henry Martin
J. F. Gheenman

New York.
San Francia
Sun Francisco Port Offi
New Patent Agency.

The Patent Agency Business,
And would invite Inventors and Diseoverers on the Pacifc coast, who wish Dispatch as well as Ecotomy to cal
upon un. We bave an Experienced Agent at Wasling tot, which, together with our own experience of severs fears, renders the

Mining and Scientific Press Agency
The most dexirable placo to make application for Lettera Patent on the Pacific coast. Apply at
office of the "Mining and Scientific Press," Room No. 27, Federal Buildng, corner of Battery and Wnsh ington streets, (directly opposite the Post Oflee, ) San
Fruucisco.
EWER \& SMMCH.

FOREJGN PATENTS OB'AINED
By application at this offee, Room 27. Federal Building EWER \& SMITH, Solicitors.

NOTICE TO INVENTORS
nventors wisbing to fle Caveurs should npply at this Onlee, Room No. 27 , Federal Building. Termis morler-
EVER \& SMITH.

PATENT RIGHTS.
Patent Rights mought and Sold,
At the ollice of the "Mining and Scientiac Press" Agenay
EWER \& SMITH.

TMPORTANT TO INVENTORS.
Inventors who nbtain their Pateats through this Oftee can have their Inveutions ithustrated and teserilied in
the columas of thin paper Frge of charge, they merely furnishing the cogravinys. We arealsn prepared to furnish engraviogs at reasopable rates. Thise why do not care to gn to the expense of having engravings prepared
cau have therr inventious fully moticed aud deseribed in our columns, free of charge. The free ase of our columns to zid them in introducing their inventions to the public will be fourd a most smportant navantage to ventors.

## To Mining Companies.

TfOR SALE-ASTEAM ENGINE AND BOHER. TAE hech stroke-somi nll complete The boiler las 5 flues, is 24 feet loug, 40 inches iu diameter, made up from the hest threo-ughth
inch $J o w$ Mour Irou, and weighs ahout 5000 pounls. Botu Eugiac and Builer are in perfect order and fully garanteed. Apply to
San Fraucisco, June 13, IS63. HAM, No. 211 Clay st.

Offlee of the Nevads Copper Mining Co. March 24, IS63. - At a moeting of the Bourd of Trustees Gas levied upon the Capital of Fock of the Gompary, yay able twenty ( 10 ) cents per share within thirty days, and
wenty (20) cents per slare williu sixty days from this wate, to tho secretary. By order of the Irustees, date, to tho Secretary. By order of the Trustees,
J. ARMSTRONG, Scretary.


## CENTRIFUGAL QUARTZ CRUSHER.

The annexed cut represents the quartz crusher, of which e have frequently spoken, as in use at Pike's Peak, where appears to be known as the "Young America Quartz Crush-

In the proprietor's Circular from which wi? gather the Howing description, it is called "The Centrifugal Quarta rusher." It is employd at Pike's Peak in connection ith Keith's Desulpherizing Process, for which it is pecutrly adapted.
It is claimed that this mill is capable of crushing a larger hount of material, with a less expenditure of power, than by other mill in use. It is said to be as wellwdapted to the inding $8 f$ all kınds of grain, as it is to the reduction of partz rock. The engraving fully represents all the parts, a prition of the left side being broken away to exhibit the ms, shows its inside structure. The shell is three feet in ametor, and five inches wide; a steel shaft passes through O centre, armed with six fans or arms, reaching pearly to e periphery or rim. which is corrugated on its inner side. The material to be crushed is thrown in alongside the shalt d las its exit on the opposite side, through the pipe there - presented. Each piece of ore or other material, as receiv, is stricken by the arms, and rendered dust fine, in hich condition it is thrown out at the tube on the opposite lo by their action as a centrifugal blower. The fineness of product, and the efficiency of the mill, depend entirely upthe ve'ocity with which it is moved, aud the position of the po for the exit of the ground naterial. At low velocity it an excellent rice and coftee huiler, and at high velocities ehardest gold quartz can be ground to an impalpable wder.
analybis of the action of the centrifugal quartz crubier.
For a clear understanding of the action of this instrument will be neccssary to analyse some of the nataral laws fich are broughtinto requisition during its use.
The difference between absolute momentum and contind force, is well understood; but when the momentum is rried up to unusual speeds, it 18 clamed that new acas and functions are developed, which are not to be found the trip hammer or other asual methods of exercisiag mopntam. Suppose a piece of gold quartz to be thrown inthe atmosphere, and during its descent be stricken by a dge hammer, traveling at the rate of twenty thcusand et por minute; it is claimed that the action will not be prely to break the gold quartz into fragments, but to surse the cobesive power of the mass, and thus, for an inint, of time, to do away with that property, rendering the iss representing smoke of finest possible division of math

And this elain we think can be rendered uuderstandle by a clear illustration of what constitutes cohesion, d also by a development of a new function, which nay be us expressed.
A body in motion, is said, in common mechanical parlance, have a power, as a projectile, equal to its weight multied by its velocity." It may be said, with equal truth, that 3 harducss of a body in motion is equal to its hardness Atiplied by its velocity. Thus, it is well kuown, that a

Howell's Patent Centrifugal Quartz Crusher,

tallow candle may be thrown from a gun through an inch plank, while it is well known that a candle is much softer than a board. It is also well known, that a disc of soft iron rapidly revolved, will cut into a bar of steel; indeed, any substance, which from its surroundings and peculiar configuration, can be passed with great velocity, is increased in relative hardness. Let us admit, then, that with the Centrifugal Quartz Crusher the moving arms may be made to reach the velocity clained as necessary to surprise cohesion. If we examine cohesion as a property in matter varying in different substances, and suppo=e it to arise from the attraction of particles for each other, rather than from a hooklike torm of particles interlacing each other, we shall find no difficulty iu comprehending the immense force necessary to sever it. Thus, a cubic inch of steel, or an inch square of steel, would be more proper in this case, exercises tension at the rate of $90,000 \mathrm{lbs}$. when applied as continued force, and not as a momentum. If we recollect the rale that attraction is inversely as the squares of the distauces, and then admitting that with an ordinary magnet, the attraction exercised upon the keep, at the distance of one inch, is 1 fb , then at half an inch it will be 4 thas, at a quarter of an juch 16 ths, at an cighth of an inch 64 ths, at the sixteenth of an inch 256 lbs , at the thirty-second of an inch the square inverse of that number, and so on at the same ratio, until at the point which is supposed to be actually in contact, it is no longer curious that the inch area should sustan 90,000 this, but rather that any amount of force which could be practically applied would draw it asunder, and were it not for that film. af resistance described by Newton, it could not be separated.
Wheu a surface is attacked by absolute momeutum, this filin of resistance may be perceived; and although in or
dinary use two billiard balls do not really touch each other and therefore the polish is not destroyed and the balls are not split, still with an increased amount of momentum both these effects will occur. As an illustration, suppose a polished anvil have placed upon it a piece of gold leaf, and you sh uld put upon this any amount of continued force, it would not cause any analgamation, or other connection botween the gold and the anvil, and after removing the impinging matter the gold leaf might he blown off; but if the gold leaf be stricken by a polished hammer, so as to develop momentum at the point of contact, that point will be found to be permanently gilt, and if we scrape off the surface to three times the thickness of the gold leaf, we shall find gold imbuing the metal. This is a well known fact, and fuirly illustrates that by absolute momentum the film of resistence may be pierced, and certain metals may be torced into each other.
Now in the use of the arms of this machine, we would clam that aboolute momentum, and not continued force, is the form in which all power is developed at the speed proposed by the inventor. This momentum is sufficient, yot only to do away with the film of resistance at the point of contact, but to surprise the cohesion of particles, 80 that instead of breaking the mass into many pieces, it absolyteIs divides it into its ultimate particles: and there is a speed at which chalcedony and gold quartz, may be crushed by this machine, so that the powder resulting is so fine, that when rubbed hetween the fingers it is soft like velvet, exhibiting ne grit or other proof of crystaline or other continuous structure ; nor will the machine itself be abraided during their action, for so great is the speed of the arms giving the momentum, that their hardness, as before explained, is increased in the same ratio. Even the surface of these caitings will not be abraided, while the substances they are irmpinged upon will be delivered from the machine in this finely divided condition.

All former methods of crushing gold quartz have failed in exhibiting all the gold, from the absence of an entire divisior, mechanicaliy, of the particles. This may be understood : a piece of pure gold drawn aeross the surface of a hone leaves a yellow mark, and in many kinds of gold ores this graphitic-like mark is to be found pereolating the mass, and when divided by washing, despite all methods yet pursued, it passes off with the water. Indeed, this finelydivided gold will float a manth on the surface of water, without becoming wet on the upper side of the particle, or in other words, without sinking', and it is therefore lost. Many specimens of pold quartz contain a much larger amount of gold than can be separated from them after what is usually called thorough grinding, by washing, and the same defects from the same reasons, oceur during the attempted amalgamatinn. When the quarta, however, is crushed by this machine, at its greatest velocity of aption, every graphitic indication of gold is caused to appear upon the surface of particles, and therefore it may be removed by ordinary amalgamation. We have segn ores crushed with this machine, which would yield a larger per centage of gold beyou d the amount obtained by the usual methods, than the amount so obtained.

Notes of a Trip to Slate Range via Los Angesos and El Paso.-No. 4.
APRLL 25th. The EI Paso range of mountains, for which the District is named, is a spur from the southern termination of the Sierra Nevadas, ruauing north easterly abcut 25 miles from Red Rock Cañon, near Cane Springs, through which the road leads off to Owens Lake country, Coso, Mono and Esmeralda mining Districts. Another spur of burnt mountains commencing at the same Ganon, runs north-westerly to Walker's Pass, about 35 miles. The El Paso Range seems to contain rich metals, throughout its whole length, exceptat a point about 3 miles north of Mesquit Springs, where the hills appear to be entirely burved to ashes. Some gold has been found in these hills, but no defined ledges. the mineralis and mineral veins.
The minerals found here are silver, copper, galena, and some gold ; of which the Tucker Lode, on Gold Hill presents, thus far, the best indications, which are bright pieces of native metal seen all through the rock. The range seems to terminate in a mountain called Laurel Hill, which contains more rich lodes than any other in the District. The Manzannilla, Milliken, Laurel No. 1 and 2, and Ophir Lodes are located there. Thus far but very little work has been done in the District; no working men have come in. All are prospectors and locators. Many of the lodes show very rich croppings, and soon they will be further developed by sinking shafts, and tunnels, to find their condition 25 to 50 feet below the surface.
The lodes now located are generally boldly defined, some of them rising 5 to 8 feet above the surface, showing a continuons line of mineral for a long distance.

> ORE en route FOR SAN francisco.

A train of 30 pack-mules passed, from Slate Range, to-day, loaded with An'rim rock bound for San Francisco for reduction. The teamsters all say that this point may be considered the half-way station from Los Angeles to Slate Range, as from this Spring no leed or water can be found, together, to keep up the condition of the cattle. Teamsiters offer to contract for freight to this place at one half the rate to Slate Range, although the distance from here to Slate Range, is only 50 miles; while to Los Angeles it is nearly 150 miles.

APRL 28th. There is no difficulty in finding leads here, as they crop out on every hill and gulch. We shall locate some of them, and as soon as our tools arrive, develop them, to determine whether they will pay to work and ship to the city, at a cost of about $\$ 125$ per ton.
a thunder storm.
May 1st. A heavy thunder storm, with little rain, passed along the summit of the monntains, following the hill around to the East and then South Easterly on a spar into the desert about 40 miles. It was very interesting to one who had not heard the sound for more than 13 years.

May 4th. To-day we associated with a couple of prospectors, who have a pack-mule, and one of our party left with them for a week's trip to prospect Laurel Hill, from which some specimens of great value have come into camp.

## the ill fated ada hancocg.

Report came in to day of the terrible accident occurring to the steamer Ada Hancock, on the 27th ult. This strikes home to our communiy with great force as we were intimately acquainted with most of those killed and some of them are associated in this mining enterprise, and were here only a few days since in full health.

May 5th. Made out and posted notices of a meeting of miners, for the 8 tin of June, to alter and amend the District Laws.
A party of 20 or more soldiers have arrived at Can Springs as escort to a train conveping Government stores to Owens Lake Country. They remain at the Springs till a former train returns to that point under guard and then return the way they came.

## prospegtors and laborers arriving.

Oar Recorder, J. Narboe, and others who left under the Indian excitement, have returned and are intending to progress vigorously with the work of developing the clains.
11th. Two Gornish miners came in to-day with a Visalia party. Messrs Turner, Cobb and Rheinstine, to open claims and test their value. Good for us!

Messrs. P. Banaing of New San Pedro and M. Keller of Los Angeles, have sent out a working party of about 20 greasors and four or five white men, to work 15 or 20 claims, held by the original discoverers of this District, Messrs. Milliken, Narboe and Warner. Most of these claims are in Montville Cañon, Copper Hill and Basin Silver Hill and Gold Hill: They reserve their Laurel Hill leads for the present, I am told. Our population is now about fifty, including greasers.
15th. The greasers are leaving, as the work is very hard and the pay small-about $\$ 25$ per month and found. The climbing up to their work in the morning is what wears them out, as the camp must be located at the base where the water is found.
17th. Messrs. Keller \& Co. are here again to look over the District and decide in regard to sending out more help.
Wednesday, May 20th. For nearly three weeks, I have been almost alone, acting as camp keeper for three camps, clo:e by, while all hands are busy among the rich lodes of Laurel Hill, 15 miles sway.

I will sead forward by first opportunity this fourth paper. and theo others as occasion offers.
Report has come in of Mr. Whitmore and siz horses mussing from Indian wells ranch, supposed to have been taken by Indians. Two horses were shot and left on the ground.
1 will make up a list of what is wanted for a prospecting trip like this, in my next letter.
C. W. T.

## SUB MARINE EXPLORATIONS.

It is only within a few centuries that the inventive genius of man has been enabled to so far cope with the ordinary laws of Nature, as to remain for any length of time beneath the surface of the water. Curiosity at first prompted te such attempts, and subsequently the wants of man became powerful incentives to effurts in this direction The limited powers of endurance on the part of the simple diver, soon called into action the inventive ingenuity of man to supply mechanical aids for such bazardous and laborious undertakings. Inverted wooden tubs, cumbrous with pendant weights and overhanging tackle, gradually gave way to metalic hemispheres, with various contrivances for supplying fresh air. Dr. Halley and Mr. Phipps, in the latter part of the 16 th century, made various important improvements to the "Diving Bell," which greatly increased its practicability. The Doctor invented a very useful contrivance by which he was enabled to go out and move around upon terra firma at the bottom of the water. This last invention doubtless suggested the "Submarine Armor" which has been so popular for the pust twenty years, and which has actually accomplished much in bringing to the surface sunken treasure, etc., and in conducting various other submarine operations.
Important as were the results achieved by these appliances in the hands of daring men, from the time of their earliest introduction up to near the close of the last decade, it was still acknowledged that much remained to be done to bring the diving bell to anything like a reasonable standard of excellence. The chief obstacles in the way of their advantageous application was the cumbersome machinery unavoidably attached to them, for forcing air, eto., and the necessity of sustaining them by dericks or cranes. The former objection was a most serious one and extremely hazardous, as the lives of the divers of ien depended upou very slender and uncertain appliances; while the necessity of being sustained by cranes rendered their employment upon floating sapports almost useless from their constant up and down motion, where the water is agitated by any considerable wave or swell. The great danger to life, and terrible effect upon the system, attendent upon the employment of the submarine armor is well known to all conversant with submarine operations. The simple statement of the fact that in the use of the "armor" at a depith of 100 feet, every plunge of the air pump is equivalent to a blow nearly equal to four pounds upon each square inch of the body of the operator, is sufficient evideuce of the endurance required in in its use. No organization can successfully resist the exhausting effects of such terrible and continuous shocks for aay considerable length of time.

The Diving Bell and Submarine Armor, haye had their day. They have beep weighed in the balance and found wanting, and the world is now indebted to an American In-
ventor for what appears to be the perfection of mechanic: appliances to submarine operations, whether for descendit to the bottom, remaining there at will, then ascending the sur!ace; or moving aloug beneath the surface, at a gree er or less depth as may be desired.
The invention to which we now refer was patent, by Professor Ryfrson, of Nevt York, about three yea since, and was first successfully employed in removing t] obstructions near Hurl Gate, in New York Harbor. Itw then pronounced by the New York papers as the ne $p l$ ultra in the way of a diving apparatus, and that opime has never been qualified since.
We have now before us a sketch of this ingenious pie of mechanism with a description of its parts from which r . condense :-

It is formed of two very substantial wrought-iron cylinde one of which is contained with.n the other. The space 1 tween them forms a compressed air chamber.
The inner cylinder is divided into two compartments, whi can be completely separated frön each other by closing 1 intervening man-hule whenever separation is necessary. Co munications are maintained between these compa ments and the compressed air-chatnber by valves, or sti cocks. At the base of the machine there is another compe ment completely surrounding it called the ballast-chamt It communirates both with the compressed air-chan! and the external water, by means of pipes and stop-coc Into this ballast-chamber water or air may be admitteri pleasure by the workmen within the Bell, and the mach call ascend or decend; and the equilibrium is so nicely adj: ted tuat it is absolutely impossible to upset the machine er. when it may rest only on one point of a rock. The ai, condenced into tne compressed air-chamber at first, by ordinary force-pump, to the extent required previoas to decent. The machine is now perfectly bouyant, buthy ingenious arrangement, after the hatch is secured, wat admitted into the ballast-chamber; the machine then si and after it has reached the bottom it remains ready for proposed work. This machine having reached the bott to be explored or acted on, the man-hole between the $t$ compartments is opened, and the workmen begin their o ations in the lower working chamber, and can contir. them without interruption, eveu for daye, either in lay foundations of breakwaters, sea-walls, piers, in raising su. en vessels, treasure or anything valuable in them, in div for pearls, and sponge. It has been suggested by experien persons that this Bell is preeminently fitted for the exple tion of the bottom of auriferous rivers in every part of ; world. In short, this machine is applicable to every bray of submarine exploration. The light is partialy admitted bulls-eyes. Candles are required, and the combustion these, together with the respiration and transpiration of confined workmen, in due time vitiate the air contained in chambers. 'To remove this air withont external appliar was the great problem to be solved, and Mr. Ryerson triumphantly done so. By a very simple expedient the : is restored to perfect purity in a few minutes, not as in I previous machines by driving fresh air from above, but, driving (by means of a small forcing pump within the crine) through a very minulely drilled resette, resembl that of a common watering-pot, water from without, in form of very fine spray or mist for some minutes.
By this simple and easy process, the carbonic acid and er noxious gases, formed by combustion \&ce, disappeari the previously vitiated air recovers its oxyoen, and is for (as determined by a very careful analysis, given in anot column,) to hold an excess of five per cent. more oxy? than that contained in the ordinary atmosphere Thus erson's machine can ascend and descend, always maint. ing an equlibrime, purify its vitiated air without exter connection or assistance, and is thus placed at the head all submarine explorers.
Poison Antidote-Sweet Oil.-Says a farmer: "Il 1 now over twenty years since I learned that sweet oil wid cure the bite of a rattlesnake, not knowing that it wr $\ddagger$ cure any other poison. Practice, observation and expi, ence have taught me that it will cure poison of any $k$ both in man and beast. I think no farmer should be out a bottle of it in the house. The patient must tak a spoonful internally, and bathe the wonnd for a cure. cure a horse it requires eight times as much as it dc'a man. Here let me tell of one of the most extreme casif snake-bite in this neighborhood, eleven years ago this mer, where the case had been over thirty days' standing, dd the patient had been given up by his physicians. I hea of it, carried the oil, gave him one spoonful, and a cure as created. It is an antidote for ansenic and strychnine. It will cure bloat in cattle caused by eating too freely of 1 ish clover ; it will cure sting of bees, spiders, or other inse $\beta$; and it will also cure persons who have been poisened by 10 ivy vine."

## MININGAND SCIENTIFICPRESS

## LIST OF MINING COMPANIES HAVING OFEICES IN SAN FRANCISCO.



\section*{| $\mid$ |
| :--- |
|  |
|  |
|  |
|  |}


| Name of Compeny | Location of Nowe |  | Locality of Offier |
| :---: | :---: | :---: | :---: |
|  |  |  | Maraponzan bis |
|  | Hutuhel: Niv. I |  |  |
|  | pervirn tialo bina. |  |  |
|  |  |  |  |
| 1a.......g |  |  |  |
| J.ce Harks |  | H. Bl |  |
| IEwRt ......g \& |  |  |  |
| Junct リ) (1) |  |  | fou Molgana'y ml |
| Jarzentox |  | T. L. Blubing | 345 Mearkum y -1 |
|  | 1 ll | w | :2 3 |
| KıокL'к. |  | (3. H. Wakelee | r. |
|  | Humboit Nev |  | ug |
| IRя | Exalieroluas limets | James Nea |  |
| mbacasicie | , | H | 4.8 |
| 1.ave Yaxke 6 is | Slate Ra | W. w. | tuo Munitg olu'y st |
| and Wasimacton. | late linge | W. W | Stu) Munts'rul' at |
| 1.temak Ms'g C | Conkt Hill Dist | J. S. Pu: Pu |  |
| I1 Tru. Co | Star Disitrict ..... | Chur |  |
| 1.11 | tim |  | 4 |
| Las |  | C. |  |
| divingeton ...gid | btmerulda Di |  |  |
|  | Tirgula Din | R. N. Vuu Brumi | 706 Mutigm'ry st |
| Latrouk | Virgioia Di | 8. W. Yau Br | 708 slemtikn'ry st |
| Lollsa ......eds | -itver ciny | F. Po | ISS Callforuia ht. |
|  |  | Wm. Fautkner: |  |
| L |  | d. |  |
| 1 | Sn | Cluas Friedberg | to8 Clay st ...... |
| Ladid | He |  | 605 |
| Latre | Tumbume | Jobin R. Ru | 410 Montgo |
|  | Fsomeralda Di | T. L. Bibbius.. | 305 Mmig.m'y st |
|  | Esmeralda bistrict | Wm L Dinacan |  |
| M11.w | Vate Rauge | W. H. Clarke . . | 224 |
|  | \% | W. H. Clarke.: | 224 Sontgmory 8 de |
| M8 | Calaveras County, | L. Francou |  |
| 11 | -italun 3 cer | Th's Brownjohn | 621 |
|  | Virginia Dist | R. T. C. Page.. | 428 Mo |
|  | Virglnia District. | P. B. Cornwall | 608 |
| 3t. batinson G |  | F. A. Fabens . | 47 Montgom'y Bik |
|  | Virgiva Distray | F.H. Watermä | 712 Mntgom'ry st |
| Madisox, | Sla te Range | G. J. Turner | 606 Montgom'y BL |
| M | La Paz, | (i. J. Turı | 606 |
|  |  | John Growley | 428 |
| M | inte Rauge ID | Juhn Crowley | 428 Mintgom'y 8 8t. |
| Monte Ch | Virgiuia Mistrict. | E. B.Holmes.: | 712 Montgom'y st. |
|  | Copperopolis | B. Cornwall |  |
| Madisuon .... g \& S | Vir | 1 | 608 Mercliant ${ }^{\text {st }}$ |
| Mandiotr, No. | Ekr | Joseph R. Beard | 4 Armor |
|  | Vrgiu. \& Gula Hull | Thus Browdjohn | 6.21 |
|  | Humbold | ${ }^{\text {H. Gag }}$ | Mer |
| Mi |  | ${ }^{1}$. ${ }^{\text {N }}$ |  |
| Mansuth Con Gas | Ex | El |  |
| Mintiehans |  |  |  |
|  | Hamboldt, N. Ter | J. ${ }^{\text {J. }} \mathrm{C}$. Aage |  |
|  | Mariposa Dist jef | 蝔 Brry | $\text { } 636 \text { Sucramento }$ |
| N | Cahnveras | Bre |  |
|  | Yirginis Diut | V Joi | . |
|  | Vrrgitifa Dist | H. Br |  |
| N | Grass Val. Ne | Juo Armstrong |  |
| N | Nev | B. Corawail | Hes Mer |
| N |  | P. B. Cornwall |  |
|  | Slato Rat | A. H. Clark |  |
|  | Soledad | E. Ba | 638 Sacramento st |
|  | Esmeralda District | E. Daniel | Cashler Costom H. |
| C | Eagle \& Washo dis | C |  |
| Oct | Emma Francis dis. | J. H. Gager | k |
|  | Clay ton District. Sáa Antoutio Disir | IV. (t. Elmore | 41 |
|  | Virginia District. |  | Metropolit |
| Prime of | Esmeralda D | J. F. Mail | 605 |
| Puert | 1 am | R, C. Pag |  |
|  |  | E. B. Ho | 7 J Montgom'ry st |
|  | Fsmerata | C. Etevens | 6 Parrots Building |
| Pacific ...... $G \& S$ | Fsmeralla District | H. R. R. Reed | 321 Washingtoust |
| Prnsproo.... G $\& \mathrm{~S}$ |  | 3nha Crowl | Lucas d Turner bg |
| Prerless ....g | Buena Yis | A LC Chamde | 433 Jo |
|  | Fsm | B. Cornwall | 608 M |
|  |  | H. Cl |  |
| R1 |  | ${ }_{\text {M. G. Gin }}$ | 528 Montgom'y st |
| Rehy.......g \& s | Star District. | W. F. Mart | 617 Clay street.. |
|  | Sacramento Coo'ty | Gve. Touch | ${ }_{71}+1$ |
| Rekse | Reese River | R. N. Vad Brup | 706 м |
|  | Flowery Distr | J. F. Pop | 115 Ca |
| Rral Del Moxti | Esmeralda Distr | $\because$ Patte | 52 |
|  | Nate Range Dis | A. H. Clark | 522 Mnntgom'y st |
|  | Fsm |  |  |
| S |  | W. W. Lewton | 4 |
|  | Snt | . Bar |  |
|  | An | 3. G. Eid |  |
| SANFRANG SACRANENTO, |  |  |  |
| Rost | Virginia Di | Nelson Hu | Front street. |
| Eis | Virgiois D |  | 408 California st. |
| Smver CTT . G\&S | silver City. | O. R | Cor. Bat \& Rush st |
| Succor | Giold Hill Di Genoa Distri |  |  |
| , |  | E. Bane | 174 |
| Sol Lewls. . . 6 | Esmeralda Di | H. C. Chambers | 22 M |
|  | Virginia Di | Martin | 037. Cla |
|  | Virginia Distri | 1. H. Brewer | ${ }^{40}$ Moutgom'y Blk |
|  | Silver Gity District |  |  |
|  | Esmeralda District | J. H. Blood |  |
| ach | Aurora, Модо Co. | E. Wo | 547 Wasbingt |
|  | Aurora, Mono Co. | E. Worl | 547 W8 |
| S. | siace Rao | G. J. T | 606 M |
|  | alda |  |  |
| Gzorob.... \& \& S | Humboldt District | A | Not |
| Ex | iuena Vista dist | I. | st |
| Shinds..... GE \& | Monterey, |  |  |
| Socti Utar.. G \& S | Esm | Geo E. | 93 Merchery |
|  |  |  |  |
|  |  |  |  |
| Sul | Virginia Dist.....ic | n | 712 Monngm'ry st |
|  |  |  |  |
|  | Hat, N. Ter. J | J. H | (ent mim bik |
| Shame Rang | $\text { o Range } \dot{D}$ |  | Montgom's |

## THE CENTRIFUGAL QUARTZ CRUSHER.

The great interest manifested, and mumerous eaquiries made, hy letter and otherwise, with regard to this Crusher, have induced us to give an illustration of the machine, on our first page, accompanied with a description, and a very full analysis of the philosophy of its operation. With regard to its capacity or practicability we know nothing except by hoarsay, and that information, together with our authority, we have fully communicated in the columns of the Press.
From the fact of its continued use at Pike's Peak, we are ioclined to think well of it. The philosophy of its operation is evidently suand. A most important condition attending its use is, what appears to be a act, that it reduces the quartz to an impalpable powder, at one operation. A further important consideration is that it works the ore $d r y$. The latter we consider of great importance, as we believe it is nuw pretty generally admitted that a very large percentage of the precious metal-, especially in gold crushing, is invariably carried off with the water, in spite of the most carfully managed settling vats. We shall cheerfully communicate to the public any facts with regard to the actual results of this machine, which may reach us through any reliable channel.
Lithoarapher.-Mining Companies, and others, in want of any kind of Lithograph Work, will do well to call upon R. W. Fisubourne, at 529 Clay St. Some of the finest and best desigued Certificates of Mining Stock we have ever seen are from his place. See his advertisement.

The Mary L. Gardiner.-We have received many enquires with regard to the "Mary L. Gardiner" Company, of Esmeralda. We know nothing more of it than we find in our Esmeralda Letters. We presume our correspondent writes from knowledge obtained up.n the ground, although in the absence of any other advices, holders, in this city, do not credit the reported "strike."
Skedaddle.-This word is said to be pure Irish. The Irish sgedad means scattered; sgedad ol means all pcattered. An old version of the Irish New Testament contains this passage: "For it ie written, I will smite the shepherd and the sheep of the flock shall be sgedad-ol." The word was probably first used in our army by an Irishman, and, being looked upon as particularly felicitous, was at once adopted.

Physiology.-Old Dr. Pearson, of London, in lecturing upon the stomach, observed that this organ had no power over substances endued with vitality, and that this circumstance accounted for the fact of the Prophet Jonah having remained undigested in the stomach of the whale for three days and three nights! This is a step further than theology ever went.
Medical Press.-We have received the July number of the San Francisco Medical Press. It contains much that is. original and interesting, from able writers.

THE MINERS' taboratort.-NO. X.

## MORE ABOUT SULPEURETS.

Mr. Editor:-The following account of some Norwegian processes, may be of interest to your readers, as a contribution to the method of working Sulphurets. I only regret that in one case I am u:lable to send you the results of comparative experimeuts.

The first method is due to M. Aas, of Thydal. Its economy is based on the production of what he terms spongy iron, for the parpose of reduciug copper from the residues of furnacing. The ores coutain but 2 to 3 per cent. of copper; the remainder is irou pyrites. The "harat pyrites" are lixiviated to extract the sulphate of copper, and mixed with a small quantity of small coal and the reduction of the iron is effected with the hot gases from a furnace, of the kind used for generatiug combustible gases, and there khown as "gas geverators." The heat is below the melting point of iron, and, for such temperature, these gases are very economical. It is obvious that this spougy iron is much cheaper than cast iron, and is in a form most excellently adapted to the chemical process of extracting the copper by substitation in the vitriol. The difficulty of furnacing pyrites in the way indicated renders it doubtful how far this is practical for working copper; but I can speak to the facility with which iron may be manufactured in reverberatories from such sponge-I must defer the remainder of this communication till you have more room for

San Francisco, July 1st, 1863.
["A Poor Chemist" is always welcome to our columns, and will never be crowded for "room."]

## SPECLAL NOTICE.

Some weeks since we forwarded blank receipts to such of our subscribers as are in arrears for their subscriptions. Some have promptly answered by remittances of the amounts due; others have notified as of sp cial contracts with our predecessor, or of full payments made to him and not credited on our books. Where payments have thus been made, we have, in every instance, allowed them. There are quite a namber, however, who have returned no reply to the bills which have been sent out. We trust all such will respond inme diately upon seeing this notice. If payments have been made, we wish to be notified of the fact, so that due credit can be given; and if there are any to whom the paper is now sent who do not wish to continue it or do not intend to pay their subscription, ze hope they will notify us of the fact so that we.may discontinue seuding papers to them. We do not wish to crowd the paper upon any man. All the names upon our list have been placed there, as subscribers, upon what we have deemed good authority. If any party, not considering himself a subscriber and in arrears, has received a bill for subsciption, he will confer a favor by notifying us immediately of the fact. Postmasters are also reminded of their duty to return a paper that is not called for, etc.

## OUR MINING DIRECTORY-SPECLAL NOTICE.

The large call upon us for space in our Mining Directory, compells us to decline to receive the names of all Companies who are not subseribers to the Mining and Scientific Press, either in their Corporate Capacity or by their Secretaries. We have removed the names of several Companies from our list, this week, for the above reason, and have been compelled to decline to receive the names of several others, for the same reason. We trust that our mining friends will fully agree with as in the opinion that no one is a proper person to act as Secretary of a Mining Company, who declines or neglects to take the only Mining paper in the State, and to pay for the same.

The Teacher.- The first number of this journal hasjust been issued. A journal of this kind seems to us, almost indispensible to the growth and prosperity of our schools.

The Pacific Monthiy.-This magazine has again made its appearance on our table. We congratulate the proprietors of this periodical upon the happy faculty which they possess, to please their readers.

## RYERSON'S SUBMARINE EXPLORER.

We have devoted considerable space in another portion of the paper to a brief review of the history and progress of submarine machines, and given a somewhat minute description of "Ryerson's Submarine Explorer," the latest improvement in this direction. The chief feature of this invention, and the principle upon which $i$ is based is the fact discovered by Prof. Ryerson that duriug the passage of spray through air vitiated with carbonic acid, the air is not only restored to its normal condition and fitness for sustaining both combustion aud respiration, but that there is actually an excess of oxygen in air after this treatment. Prof. Ryerson, to account for this valuable phenomenon, has made calculations based up:u the analyses of the late Dr. Deck, which lead him to the conclusion that a decomposition of the carbonic acid is instantaneously effected at the same time. Prof. Ryerson has informed us that the same rffect is produced with fresh as with salt water and this in connection with the subjoined analyses seems to preclade the passibility of any other supposition.

## [Copy.]

Analeticat, Laboratory and Oprice of Consulting Chemists,
No. 18 Exchange Place, near Hanover st., N. Y.
I have analyzed samples of air collected from Ryerson's Submarine Explorer, by myself, as in the margin, and certify it to contain as under.
After the air had been breathed for over an hour by three full grown men, at twenty feet under water, with a pressure of one and a have atmosphere ( $11 / 2$ ), and candles failing and respiration laborious, 100 cubic inches measure contained:


Weight of 100 cubic inches at 60 deg., 33.060 grains.
There were traces of sulphur, ammonia and chlorine. The air was so impregnated with carbonic acid gas as to render lime water rapidly turbid.
When the fine pump spray had been playing from three to five minutes through the chambers, another sample was taken, and analysis showed 100 cubic inches measure.

| Oxygen | 22.00 |
| :---: | :---: |
| Nitrogen | 75.00 |
| Watery vapor. | 285 |
| Carbonic acid gas. | 0.15 |

## Total. . . . . . . . . . . . . . . . . . . . . . . 100.00

Weight of 31 cubic inches at 60 deg.. 31.025 grains.
There were traces of chlorine, (more than before,) no sulphur, no ammonia, no turbidity in lime water, and the breathing free and agreeable.
On my second descent in the Explorer, when I had every opportunity of observing its workings and took the accompanying samples for analysis, remaining over three hours without the slightest inconvenience, no air whatever was taken in the interior from the surface or from the compressed air chamber, and 1 have no hesitation in affirming that we could have remained twenty-four hours below, the air being purified and revived by the use of the spray pump.

Isatah Deck, M. D.,
Analytical and Consulting Chemist
The samples were obtained by Dr. Deck in the usual way, i. e. by taking bottles of water down in the apparatus and emptying them when it was desired to collect a purtion of the air fur the analysis. The result shows that after the application of the spray the air was purer than the ordinary atmosphere.

Again, under date of September 21, 1859, nearly a year subsequent to the date of the above, the Doctor gave the following as the result of a second analysis :-
"I have made an analytical examinat:on of two or more samples of air, pure and impure, collected from Ryerson's
submarine explorer, in the presedee of six persons who desubmarine explorer, in the preseuce of six persons who de-
scended in it and certify the results to be as follows : scended in it and certify the results to be as follows :
After the air had been so far breathed by the above persons, without any connection or sapply of air from the surface, so that the candles went out and breathing became oppressive, at contained in 100 barts:


When the sprap-pump had been playid for ahout ten minutes, and the candles and breathing freshened, it containe d in 100 parts:
Oxygen..
Carbonic 26.00
.1 .50

Carmonic Acid 1.50
Total. .100 .00
By these results the efficacy of the spray-pump in reviving
he impure air, and doing all that is claimed for it, is tulthe impure air, and doing all that is claimed for it, is onggen $t$ an the impure, and $\overline{5}$ per cent. more than the ordinary atmosphere.
It will readily be perceived that the principle upon which this Submarine Expl.rer-is founded, admits of its applicar tion in valious ways. By varying its form, we have a conplete Subrarine boat, capable of sustaining itself at any desirable point beneath the surface, without any connection with the upper uir, and with unrestricted powers of locomotion, as capable of being directed by compass in its subnarine navigation, as any floating cralt would be iu a dark vight, on an enemy's coast, where the ligh's were ext'nguished. In this form, it may be rendered a most powerful submarine protection for harbors.
Again, as a diving bell, it must certainly, prove a most admirable piece of machinery for Pearl Fishing, as, by its assistauce, the diver may go down to the bottom of the sea, and, where it is smooth work with as much facility as be could in a mere babbling brook. He can remain down the entire day. if he chooses, open his shells at his leisure, and make choice upon the spot, of those only which are valuable. Three men by the use of this apparatus could do as much work as a hundred by any other appliances hitherto devised.
This principle of purifying vitiated air, it will furthermore be seen, is eminently applicable to the ventita. tion of mines. But our remarks have already extended to a greater length than we had inteuded, and we close, with the intention of maling further allusion to it in our next issue. The principle involved in this invention is one of ths most interesting discoveries of the age, ond, we think, our scienttific rerdera will duly appreciate the space we have allotted to it.

1ncident. - The San Andreas Register relates the following incident connected with the Keystone Copper Mine, which shows how dame fortune often rewards those who persistently seek her favors. Mr. and Mrs. McCarty each owned an interest in the claim, asd Mr. McCarty sold his interest some time since for $\$ 10,000$, and endeavured to persuade his wife to sell hers, which she refused to do. To-day she can take $\$ 100,000$ for the same interest.

## THE MINING SHARE MARKET.

The unusual excitement in the Mining share Market, no-1 ticed in our last issue, has materially subsided, and most of the leading stocks, which so suddenly advanced, bave de-1 clined. The Market for the past six days has been some what fluctuating, and the transactions quite limited compared with the extraordinary business of the week previous.
Gould \& Curry has declined to $\$ \overline{5}, 600$, with a limited demand.

Ophir shares have been in considerable demand at about previons rates. 144 shares have changed hands the past week at $\$ 2,500$.

Central has been enquired for at $\$ 2,850$; sellers to the extent of 12 shares have been found at that figure. The sudden enquiry for this stock has been in consequence of advices from the mine that ore of superior quality has been struck, with indications of continuance.

California, adjoining the Central, has been effected to some extent by the favorable reports from the latter mine, and has also been called for at $\$ 15,00$. Twelve shares have changed hands at that figure. The stock in both these companies is confined to a fem hands and held firmly.

The fact of a known location on the Comstock lead, with undisputed titles, renders the holders of stock in these two Companies, perfectly content to wait the gradual development of their mines; hence their stock is seldom effected.
Daney shares have fluctuated greatly, ranging from $\$ 240$ @ $\$ 330$, closing the week at about $\$ 300$. Seven handred and forty shares have found buyers during the week at the fignres named. The July dividends winich were sold for $\$ 13$ @ $\$ 14$ ten days since, dropped to $\$ 4$ @ $\$ 8$ on 'Tuesday last. at which rates the dividends on 750 feet were sold. (See Report of Transactions.)

## MININGANDSCIENTIFICPRESS

the corper internat.
We continun to hear encouraging reports of the copper itenst, from every direction whore any attention has been faid to searching after that mineral. stucks in all the leadHeg mines are constantly adsancing, and the attention of spitalists is being quite generally directed to this class of fines as extremely valuable property for pormanent iavestrents. Ot the many discoveries which been unnounced, it an hardly be expected that anything like a majority will rove productive; , yet suflicient developments have already een mado to satisly capitalists and the public that we may easunably look to tho copper interest as ove of ligh promse, and une which, at au carly day, must vccupy au imporant position among the industrial resuurces of the State.

## RAXSACTIUNS IN SHARES, FUR THE WEEK.






 45 North Potosi

GENERAL MINING STOCK REPORT.

## REPORT UF EIDS

At the San Franclsco Mining Stock Board,
For the week exdiog July 4, 1863.



## REMARKS.

There has been considerable activity in the Virginia Stock Market since our last quotations, and the general attitude of the Market has been firm, with advancing rates in cading stocks.
Some promising developments have been made in both the Virginia and Guld Hill listricts; among which are reported the York, Insurance. Pride of Wachoe, La Fayette, etc. These discoveries have generally been made ypon what are denominated the "back ranges."
Grass Valley is still in demand and is quuted at $\$ 70$ (a) \$75. A new claim, of small extent, called the Ruby, located near the Moscow ledge, has come into notice, and is quored at about $\$ 125$.
Many important changes have occurred since our last quotations, especially in Gold Hill Stocks. Yellow Jacket has been quite extensively dealt in at considerably advanced figures. Leon has also been in much request, but at reduced rates.

## ESMERALDA STOCK LIST.

[Corrected for the Mining and Scientafic Prese, Juip 2, 186\%.] *


The various ledges in the District continue to turn out large quantities of rich rock, and for the past ten days most of the mills have been steadily employed.

About 2000 ounces of Bullion was shipped during the past week.
The "Juniata" Tunnel on Martinez Hill is now in to a depth of 170 feet. Six ledges have been struck in the Tunvel, most of which prospect very rich. The rock from two of the priucipul ledges-one of which is 12 feet wide-assays $\$ 600$ per ton.

The "Cincinawa" on Silver Hill has been enjoined by the Utah Company, otherwise the stock would rate at a very light figure, the lode being considered one of the best in the District.

We understand that the Cincinawa has offered to suspend operations and pay half the expenses of shipping the Utalh to prove whether or not the claims connected: The Utah however decline-which would seem to indicate that there is really no foundation for a dispute between thest two Companies.
The Cincinawa is known as Cortez Consolidated G. \&

## A S S A Y S !

Promptness and Accuracy secured
By tee Use of the Most Iafproved Methods of
ANALYSIS!
Advantageous Terms for Prospector's Clubs and Mining Companies.

## J. H. CHURCHLLL, MI. A.,

 Room 24 Government tilark, corver of SansR. W. FISHBOL゙RNE,

PRACTICAL LITLOGRAPHER, ENGRAVER AND PRINTER,


 Sien chth. N. B. All orders in Crayo
ditteuded to.
-N. B. Mining Stock Certificatos executed with prom ness and dispatch, and at greatly reduced rates. jy6
J. F. \& H. H. SCHAFER

BEDDING and FURNITURE,
Blankets, Comforters, Sheets, Etc., Ete. Nos. 504 and 506 Sansome Street,
(Near Clay,)
This Establishment is now generally kuown to be th Cheapest Place in the City for good Bedding.

Branch Store. ..... Rroad St., Nevada.

## Pacific Mail Steamship Company.

N.OTICE
 Gold, Silver and Copper Ores
ean be firmarded under through Bills of rading from
San Francisco to England, at reasonable rates. For fur ther particulars ayply to B. FORBES, Agent, 28-tf Corner Sacramento aud Leidsdorff streetf.

Miners' Foundry MACHINE WORKS
First st., between Howard \& Folsom, San francisco.

F VRRY DESCRIPTION OF IRON AND BRASS MaCAIin the state of Califioruin, wall be furnished with dispatch at the Mioers' Foundry and Machine Worke, as:
Steam Eugines aud Boilers, Flower, Saw and Quartz
Particular attention will bo given to the manufacture of Machinery in sections, deesivived for places of diffcult access. Various mudels of Quartz Crushers, Amalgama-
tors and Water Wheels-some in operation and on exhibition. Parties desiring to test their ores practically, fo
smati quantities will tie afforded anuplo facilities, free or smaill quantitios will be afforded amplo facilities, free of
cosit.

All parties desirivg accurate and highiy finished draw ings and superior Ancolinery, at most reasonable rates HOWLAND, ANGEL \& KING
San Franciseo, February $\begin{gathered}\text { Howlan, } 1863,\end{gathered}$

JAMES PHELAN, (Late J. \& M. Phelan, IMPORTER AND JOBBER, Wines, Liquers, Etci, Bto is
P. DONAHOE, H. J. BOOTH. C.s. higGiNs.

UNI O
IRON AND BRASS FOUNDRY.
(The First Established in the State.)
Corner of First and Mishon streits, San Frascisco
H AVING ADDED TO THE SEVEREAL Esthulishment is now the must Exteusive and Completo of any wh Lle Pacitic Corast. tice. Loconotive. Martiue aud Stativuary Eiogives, of ey ory size and description.

## BOILERS.

Incomotive, Flue, Tubular, Upright and Cylioder, furMinhed witls or without engines, complete. Maclinery and Castings of every description,
mills, Grist Mills, Cir Wheels. Derrick Irons, etc. QUARTZ CRUSHING BAT'TERIES, Embracing a great variety of Stamp, Mortar and $\mathbf{C a m}$
AMALGAMATING MACHINERY,
Varney's Improved Patent Pans and Setters, Wakely Pans, Amalgamating Tubs, Plaisted's Griadere, Chil

MINING PUMPS.
Cornish, Lirt and and Furce Pumps, from four ${ }^{\text {t }}$
eight feet stroke, with Pipes, Bob Mountings, and Gear eight feet stroke, with Pipes, Bob hounting
ing complete.
HOISTING DRUMS.
For Sharts or Incliucs, with cintch, friction or $V$ cone s
Sole Agents and Manufacturers for the Pacife Coast, o aud \&G. M. Whanward's Celet rated Patent safely
a team Pumps and fire Enginci
All Contracis and Orders executed with promptaess
and dispatch, and at reduced prices for Cash. od dispateh, and at redu ponarue, eoon je21

DONAHUE, BOOTH. \& CO.

## Giffards Injectors;

$\mathrm{F}^{\mathrm{OR} \text { SUTPLTING BOLLFRS WTH FEED WATER }}$ shourti be without one of these valuable Iastiuments Send for a Circular.

Davin stondart, agent
je2z. Cor. Pine and Front Sts, , san Francisco.
I. C. E. KLEPZIG \& CO., GUN MAKHRS, DEALERS IN GUN MATERIALS, 733 Washington street, San Francinco, [Oue Door above Kearney street.]

Repairing done in a workmanlike manner at the slor st mitice.
Gildug,

## CORNELL'S

## EXCELSIOR GALLERY,

650 Washingtonst. Threc. doors below
Having refitted the alvure rooms the undersigned ie
now prepared to furnish lie publlic with a superior style now. prepared yo curnik $\begin{aligned} & \text { of Picture at a lower price tban ever before offered in }\end{aligned}$ the city. CARD PICTURES.
As I have every facility for producing those heautiful pictures, it all their different rarieties, I bave reducod $\$ 3$ Per Dozen and $\$ 2$ Per Half Dozen! Large sizc Pbotographs. \$3-Extra copics $\$ 1$ each. Ambrotypes in all Styles and Prices.
OLD PICTURES conied with care and aceuracy, in any styien nestred, Particular atiention paid to pichures of
Chiltree
Pictures painted in oil or Trater Colors, and retoucbed io India Ink by a competeot artist. R. H. CORNELL.

## BAUNCHEIDTISM,

The Preserver and Producer of Life.

THE CFEFTCF OF BATNCHEMTIGM AS A METHOD of aud needs no more proot. The publichas hrowned Raun-
chcidtism already with an extriordiluary patronge aud

 matism of every deserptiou, whieh kind of complaints
can fild tueir enly

 oil. Dr. Borchers is also in possensiou or origias
of the invector of the met lios by which he can prove
that he is berfect master of the laster. that he is berfect master of the latter;
DR.j. O. BORGHERS.
 ${ }^{\text {story. }} \boldsymbol{y}$

## P. M. S. C O.

PACIFIC NAAIE STLAMERIP COMPANY'S roan with the steamers of the Atlautic und Yacific
Steamship Company at Aspinwall. FOR PANAMA.

The following Stenmishipe will be dlepatched in the month of 1ay 1863 .
July 3d, Stçamer St. Loui July 23a, - - Stenmer Constitution

Win leave Folsmm Street Wharf, with Passengers and
at 9 o'cluck, A. M., punctually,
And connect, via Fanama Railroad, at Aspiuwall, with For Freight or passage,

$$
\begin{aligned}
& \text { A. B. FORBES, Agent. }
\end{aligned}
$$

## WHEELER'S

Amalgamating and Separating Pans.
It is ackonwledged by all who have examined the privciples and wituessed the operation of these Pans, that
they are decidedly superior for trituraling and amalgaroating purposes to any other io u6e.
The most important principle connceted with the oporatiou of these Pads is the sepraration of the triturating
proweas from tha $t$ of exrracing the provess from thit of exmacting the amalgam from the
sand. The shief cause of luss of che precious metals arises from the passing off of the same in combination with the quicksilver, during the proces of trituration, and in
cleaning up By the introducion of the Separating Pnn cleaning up By the introduction of the Separating Pon
to f. llow the trituration this loss is cutirely avnidud. In to f. llow the trituration this loss is entirely avnidud. In
workiug these machines there is no nppreciable loss of Where theer Pans have been introduced and operate oy the side of others on sands from the same vat, the Wheeler Paus have uniformly gained a large percentage oImetals over ita competitors, ns woll as a still larger parcentage in the amount of work performed.
** These Pans man be scen iu daily operation, at the Siner's Foundry, on First atreet in this city, where at oterested are invited to call aud examiue for themselve
zol6-ti
ZENAS WHRELER.

## A. ROMAN \& Co.,

Book Establishment, 417 and 419 , Hontgomery street, SAN FRANCISCO.

Orders resnectfully solicitel and promptly attonded to. Treatise on Mutailurgy, Comprising Minngand Gen Erat and Partucular Motallury
Manual of Metallurgy, or A Practical Treatise on the
records of Mining and Metallurgy, or Facte and Memoranda for the Use of the Mino Agent and Smelter By James Phillips and John Drlington
Sanual of Bectalturgy, more particularlyg of the precions
are omploge
in dental practice.
Practical Mineral Assiaying und Mining. Overman. Gold Mining and Assaying, by Plhitps.
Miuers' Compauion and Gutide, compiled by Silversmith Misers' 'ompauion and Guide, complied by siversmith. nersand Smelters
ractical Assaying, by Michell.
Iver Ores nad Silver Miues, by Pro. Blake.
Ure's Dictionary of Arts, MaDutactures and Mines. Wensbach's Mechanics of Mathiuery and Engineering Nevillo's Bydraulic Formula Tables.
Fresulius' Chemical Analysis.
Together with many other wo
Books And similar lines
m ROMAN \& Co.
417 \& 419 Montromerv street.
P. M. STEAMSHIP COMPANY: NOTICE.

Until further notice, the Steamers or
Prcific Mail Steamslup Company will hereaiter be
$3 d, 13$ th and $23 d$ of each month.
When any of the above dat s fail on Sunday, the steam

## Wm. P. TAAFFEE,

IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods,
CARPETS; DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francieco.

REYNOLDS
Patent Cut-off and Governor,
FOR STEAM ENGINES.
127 of these Invaiuable Mrehines, ARE NOW IN USE In California and Nevada Territory, giving a perfeclly Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

and lenstiante to shal of order of any Governor io use. It can ve seen in uperation at the foblens Btate lrom San Francis ao.

## Clarkssteam and Fire Regulator,

 For contralling the lraft or Blast by nuening the Chim.ney or Yalve in the Blast Pipe by the pressurn of the sleam in the huisior. It will regulate the pressure to a pound, on the square inch. It csssor get ont if order
and any person can put ane up in an hour after the dam-

## Ingersolls Patent Drill Press,

With which drilling ents be done the sumes as with the
eommon rachet, and when small holes are wautell, it eommon rochet, and when small holes are wauterl,
can be done four tim"t as fast. The hande can be wor in any direction.

## Folt for Steam Boilers, Pipes, Etc.

## Steam Engines, Boilers, Pipes, Hydraulic Pressea, Shufting, Pulleys, Etc., at the lowest <br> Anti Inorustation Pawder, $y$ to the iron, In use for the past EIGHT years. Refer to-Sugar Refinery, San Fraucisco, <br> 1. A. Booth, Esq. Virginia City, <br> E. T. STEEN AGENT

MINTING \& SCIENTHFIC PRESS.
THE ONLY MINING. MECHANTCL AND
SCIENTUFIC PAPER ON THIS
THIRD YEAR: VOLUME VI.-NEW SERIES
A now volume of this extensively circulated paper number shall be ruplete with information concerning Hining, Scientıfic, Mechamical and Industrial pursute, logether with several original elgravings, of new inventions, "te., prepared expressly for its columus. This paper is clovoted to the abore purposes, together . merce, and any general information that may be of interest to the reader : and it is the intention of the proprietor to spare no paius or expense in making it cqual in intereat and valuable information to any paper you published

The Mining Interest I
Will find it of graal value, hs it will contain all the news rappertaioing to Mining, the prices and sales of Minlog Stocks, new inveutions of Machiaery adapted to tiat purposo, and nf every thing generally that may bo of serviceto the Mine

The Inventor $/$
Will find it an excellent medhum for the purpose of bringing his invention into notice, of asecriaining the
progress of invention in this aud other countrica, and also of receiving any information that may be peciessary in obtaining his patent, the proprietors having had great experience as Fatent Agenta, togetber witb fucllties at Washington that onable them to oltain Patent

The Mechonic and Manufacturer
Will be greatly bencfitted by jto perusal, as its columps will trom time to time contan origiual cugrav large amount of reading inatter apportaimng thereto. We are constantle receiving the best scientific journals from all quarters, from which we shall contitue oureaders.
To Chemists, Architects and Millwvights. This journal will be invaluable. All new discoveries mation of great service to Architects and Millwrights Will be found in our columnk. The Farmera and l'lan.
ters will not be beglected, engravings will be given of agricultural implements, and the farming interest goncrally will be amply discussed.
To mall subscribers:-Ferms, $\begin{gathered}\text { Thalla }\end{gathered}$
Five Copies for Six Mouthes, $\$ 8$.
Ten Copies for Six Months. \$16.
Ten Copies for Twelve Months, 830 .
Fifteen Copies for Twelve Sontlis, $\$ 44$.
Trenty Copies for Twelve Bonths, $\$ 56$.
For all clubs of Twenty and over, the yearly subserieut times and from different Post-ofices- Specimen opies will be aent pratis to any part of the country.
Room 27, (formerly) U. S Court Building, Coruer of
Washiggton and Batery str 30 ts, San Francieco

## DESKS

Office Furniture, OF ALL KINDS...... FOR SALE BY

JOHN WIGMORE,
No. 423 Califormia St., San Francisco.
OFFICE JOBBING, of all Kiodn, utt oudell to.

Palmer, HANSCOM \& CO., GOLDEN STATE IROIV WORKS,
No. 1v, Firat Street, San Francieco,
Furnish Castings and Machinery of all kinds AISO:
Genutire Waite Iron Shoss and Dieg. Paiser, haNscosib \& Co.

## To Quartz Miners.

K.noz's Improved

AMALGAMATING PAN, PALMER'S PATENTV SIGAM CHBST. The above combination sextres the most


 Nos. $19 \&$ gimpins sitark Inow Wokk, The nublle are informed that Lecturs Patent hure heren
 aro cauthined ugainst making, buy ing issing , Wr s.lling
the same without his consent.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Monpgomery Street.
$0^{p}$ Hir silver mining stock,
golld \& curry mining stock, chollar mining rtuck, California steam natigation co's stock, BOUGHI' \& SOLD.

## DEETKEN'S

Chemical and Metallurgical Works, On San Bruno Road, Islais Creek, san fibanclicu.
Gold bearing sulphurlis worken at reas
 aigher Apparatus for separatink :ulpliurets bet up by ex
 he purposse.

LEWIS COFFEY AND RISDON, STEAM BUILER AND, SHEET IRON Tha only oxcluatvely Bositor Malking Extablishment on
the Pacific Coast Owned and conducted by practical the Pacific Cuant Owned and conducted by Practiral
Boilor Maksers. All widers for New Work, the repairing of Ohd Work, executed as ordered, and to quality.
Old Stand, corner Bush and Marizet Stroets Opposite Oriental Hotel, Sau Francisco, Cal.
Lewns COFFEY
IHEODOR KALLENBERG
Maker of Models FOR INVENTORS.

M
 Mus, Dles and DDos Sinking, Emborsingsitamps. Repariug of Machinery promptly attended to.
No. 4 Sansome street, corner DIarket
n7.3m) n7.3in)

International Ifotel, Jaiknon strmet, ....... - Sas Francisco [A few dorors abluse Montbomery.] FHEELRUUF BHICK BUILHING.

## Moxt comatitent to the

Steamer'n Latullus, Buriurese ntm. \& Haces of Amusement
OPEN ALL NIGIT.
168 City Railroad Cars Puss the Door.
REDUCIION IN PRICES.
Fine Bathing Reoma atheched to the Barbor shop.
Warm and Cold showor Bullis Free to Guests.
Thoruchaby renofatel and newhy futI mished this gipring. Every Room opens to the Light
 al ufura tu guedt the greuteril liumber azul

Best Furninhed Fabhay Ruoms;
 1 am deteruinelf that the Istrks anusas, shall be the

 Prluciles. F. E. WEYGAN'T, Proprietor

Tremont Fouse, 418 and 4:0 … Jateksuan strert,

 The City Railroad Cars pass the Door.
The House is cutbluted an Temperance Principles,
whieh secures to our gutsts quiet.
 F. E. WEYGANT, Proprietor.

For the accummodation of my many guests I have ta-

 wilh their baggage, FkRE. F. E. WeYGANT.

## Volcanic Smelting Furnace.


 seprrating metals from the sulpliurets, can oblain all needeclexplitutiou and thvice ill reg:rals to the same, and the terns of anle of rights to use the sume, on application
Cul J. D. Steveusan or T. Oge shuw, or by latur to the




The time requived tor reducing ores by this Furace
 The process of coudensation is applicu to this Furnace which will aave all thuse portious of precious metale which unually escapt in a volatule form. The atturion of all interested in the subject is requested
to exuniue the impurtant results olbaiued by this process.
Parties wiching will be allowed to erect a trial Fur
nite of a capacty for smelting one tou of ore or moro on Mite of capachy for smelting one toun of ore ar moro, on
sitning iu uliligition to puy the usuul fee for the right to use it, should dhey continue to muke use of tho invention $\operatorname{meh}^{26}$ MRS. E. J. HALL, M.
-LEANDER RANSOM, Civil Engineer AND
SURVEYOR,
Having been connected with the public works of the State of Olio for 20 years, aud the public surveys of the State of Califoruia for 7 years,

> ALSO

## STATE LOCATING AGENT.

And as such baviag the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Aere.
Terms-Twenty per cent in cash and the balance
on a cretilit of several years. on a credit of several years.
OFFCLE: Secoul floor of
ner of spess Building, N. E. cor OFFICL: Secour floar of Express Building, N. E. cor
ner of Hoatgomory and Callfornia atreets.
Oct-3m

The Occidental Iotel Open for the Reception of Guests.




News Stand,
CABINET FOR MINERALS;
A Branch Telegraph oftce, Connecting with all the lives througlouthe country LEWLS LELAND \& CO-

John R. Sims,

egon atrotet, butween Washington and Davis an
und Jarksou strects, SAN Francrgeo.
$\mathbf{M}^{\text {Innufueturers or Fire Proof Doorg and }}$ Shuther, bunk Vaults, (rimbitig, deemetary Rul-
All urlers froms the interior Oregon, Wishington phace on the Pucifice coast, attended to with promptnoss

Mr. Simg Appreciates the Past Iiboral puronag, uf his friends, uad trusta that be may
continue to merit it in the future.

For the Informilion of Stramgerg ho would sny that hu feols condident that his experience in his particular calling is surpassed by uobe on
lhis coast, which lis sulerior work, sent to al ranst every cown in this state, Oregon, also Victoria and the Sund Wich Islauds, und to bo seen on some of the best buildings 14 sun francisco, fully attast. A large assortment
of second hund shutters for sale it low rates. api3

NATHANIEL GRAY,
General Furnishing Undertalker, 641 sacramento st., Cor. or Webb,

FULTON FOUNDRY \& IRON WORKS
HINCKLEX \& CO.,
mandeacturers of
Steam Engines,
Quartz, Fheur and Saw Mills; Cast Iron Fronts, for Bulldings, Minina Pumps, and all kinds of Machinery, Erco,
FIRS'L STREET,
BETwEN MARKET AND MISSIoN..........SAN FRANCISCo
** All kinds of Iron and Brass Castinge furnished
athort notice. Every style of Finisung to Iron whel cast. Repairling of Machinery nemtly done. Paytern Making in all ith various forms. Prices low. D. B. Hyekley. Wx. E, Wortig. War. A. Held.

## W. T. \& J. GARRATTI, City Brass and Bell Founders

$\mathrm{B}^{\text {ABBET MITAL }}$ CASTMES, FiRE ENGINES, FORCE


 POSES, Iron steam gipe furnisled with fittings, sc.;
COUPLING JONTs or ALL syzes. Manufacturers of "Gur ratt's Patent Improved Journal Metal.'

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultural state fatr FOR 1882.
also; first premitum
At the San Francisco Bay District Agriculeural Fair, 1862
Manctactory, wholesale afd retail,
No. 44 Leidsulorif street,
Opposite the What Cheer House, San Francisco.

## To Mine Owners,

Parties having acod alver Min Nur wisnag lur Silahwery fo work it for an interest ta the Mine


## 50 lbs Marine and

Hire-Proof Paint,


 quite cqual to copper, no worms will ever offect $t$, und chenpur thamany uther paiut.

## DIRECTIONS

For Decks of Shups, use twe phrtu Mineral Paint, one For Bottom of Yesels use bue part pround sulpher hireer partu Nherral Paioi, mix with Coul Tar sud apply Tt Fur sule by allship Chundlern and Travlermen, in boxes of 50 lt . chich, or by the Pacibe Sectulurgical Works.

> 25 POUNDS FLRE-PROOF PANNT.

When ured on Ronff, Bullinges, or Fencer, it is equal to covering them with a cout of shase, bevog pericecty
Fire Proof, aud consting less than any palut. DIRECTIONS:
HOUSE :-MIX three parts sliueral Pajat with one par White head, chis with Linased uil: if a lighter color is RUUs:-Five ph' 't of Minerul Paiut, one part whit Lead; niix with Lingred oil. Put it thick on a tin Roo as oue cout when properly appliedwill last three years.
WORKG, North Beach; OAfice, 509 Sace ramonto ato, Snn Francisco.

## WRIGHTS PICKS.

JOHN WRIGHT, of Sacramento, has establaned hamgelf in san Yrancisco for the manufacture of every description of 1 ICKs, of the best inaterial, at reduced prices. Pick Extes of the best iron furuinhed in any quan city, at low rates Orders from the country promptly attended to. N. B.-None genuive unless stamped with my namo. JOHN WRIGHT, 511 Market street, Opposite Buttery, San Franclicco.

## REMOVAL.

O FEICE OR THE PACLEXC METAZ. Hoving eularged our Worts at Nurth Bench, wo are How cabled lo reduce from 10 to 15 tous of Silver or Gold rock per day.
Gold and silver or
Gold and Silver ore, and Sulphuret Assayers', or 811 vorsmiths' sweepings reduced or purchaxed. Copper OBF'-Highest market rates advanced in
cash, for shipmenth.
S. C. BRAUSHAW, Ageat .

## WANTED,

$G^{\text {OLD CuARTZ SUITABLE FOR }}$
CUTTING JEWELRY,
by frontier a. deviercy,
13 ap 487 Pine streot, San Francisco.
FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN
No. 482 Calffornia street, corner of Leidsdorf.
Drawings of Moneas made for partiea applying for pa-
matres 2 mi ents at Wusbiugtou or Londou.

## HAYNES \& LAWTON,

mporters and dealers in
CROCKERY,
GLASS WARE,

## FRENCH CHINA,

Coal Oil Lamps, Table Cutlery, CIOCKS Silver Plated and Britania Ware, вто., епт., етс.
NO. 516 SANSOME STREET, : [CORNER OF MERCHANT,]

## THE <br> BRYAN BATTE゙RY. <br> The vast interest involved in the reduction of ores on this coast, renders it of the highest importance that the Machinery employed for this furpose should be of the most Effective, Econonuical aud Durable Charactor. It may be safely said that Millions of Dollars have already been spent upon the various experiments in this class of Machinery, and it is a fact well known to all class of Machimerg, and it is a fact well known to all who have had auy practical experieuce in the matter, who have had auy prachical experience in the matter, that every new process devcloped during he past twelve yeurs, has been set dowu as a failure. The ordinary Stamp Battery <br> ALONE STANDING THE TEST. <br> This, with the Improvements which Experience has suggested, is b

## METHOD OF CRUSHING ORE.

The bryan Battery, as now conistrucled, is bolieved to combine all the improvements wheh $t$
of the past has affordud. They have been

## EXCLUSIVELY ADOPTED

by many of the most prominent Mining Companses in the country, aud have been, for the three past years, suband in every case has been pronounced

## Effective, Substantial and Reliable.

They are now extensively used througlront the mineral regions of California, Nevada and Mexico, and have established a claim to public confuleuce, pever y qualled is any piece of machinery
These Mills are constructed almost entirely of Iron, and, consequently, are not affected by the inteuse heat
and dryness of atmosphere, common to all miniug local and dryness of atmosphere, cominon to all mining local

## BOTH WET AND DRY CRUSHING,

and are warranted to reduce, with the same weight of Stamps, 25 per cent, more rock than any other mill it
use. Each Batterr is complete in itself, and forms a perfect mil!-while any uumber of them can bo added at a subseqeut time-thus preserving the symetry and uniformity of the Mill
As an evidence of the increasing favor with which these milis are regarsed, we would mention that the Celebratod Ophir Company first iutroluced thein into Batteries, each subsequent year, until they now have Nineteen, running Seventy-six Stamps,

They are perfoctly fitted and set up at our Works, be ore shipping, each piece being marked and numbered so that they can be put up and set at work in tou hours after urriving on the ground, They are made of two si-
zes with four and tive Stamps, etc. The Four Stamp
年 Battery weigha, when complete, ubout 6, ooo prouuds, aud the Five Stump about 7,000 . The Sortar Bed, when desired, is cast in sections, so that the mills can be packod over any mountanu road.

We annex the names of : few well known Companies Who have a dopted them-ruming from fuur to
five stampseach-to whom refereuco is made:
Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill,
Potosi Mining Co., Virgiuia City,
Tajo Mining Co.' Mexico,
Sheba Miving Co., Humboltd.
Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co., Owen's River,
Uniou Quartz Co., Aurora,
Triunfo Mining Co., Mexico
Napa Quartz Co., Aurora,
Petaluma Quartz Co., Gold Hill,
Fraucis Mellus \& Co., Slate Range,
W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat,
F. A. Benjamin \& Co., Mexico,
O. J. Parker \& Co., Nicaragua,

Gibbons \& Clayton, Esmeralda,
Smith \& Clonser, S. F. Reduction Works.
Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY GODDARD \& CO.,

## At the Pacific Iron Works.

San francisco.
08185 to 136 First strect, and 126 to 144

## APARTMENTS.


 bome will do well to apply. jy6
E. C. DAKE, dealer in

## CLOTHING AND

Gentlemen's Furnishing Goods;
HATS, CAPS, ETC.
At the New York Clothing Store,
$541 \& 543$ Washington st. Montg'my BIk je] Old No. 145.
${ }^{29}$

E, T. PEASE, R.S. CORNING, SAM'LO. BOWLEX
PEASE, BOWLEY \& CO,
Real Estate, Stock and Exchange
BROKERS,
621 Montgomery street, San Francisco.
Legal Tender Notrs and Mining Stoces, BOUGHT \& SOLD.

## P U M P S !

HARRISON'S
California Lift and Force Pump,
without valves or packing,
Suitrble for Mines, Fire Engines, Wrecking or Irrigat
ing. This is the cheribest, Lifturest and most Duruble ing. This is tho cheipest, Lithtest and most Duruble
and leust lable to get out of order, of any Pump yet in and leust
vcated.

ALI SIZES;
Capable of throwing from ONE HTNDRED ta FIVE
THOUSAND Gullous per Minute

## C. H. HARRISON, Phoenik Oil Works,

Je-15
517 Frout Street, Sun Francisco,

## ~nun

## DR. H. AUSTIN, DENTIST,

No. 634 Washington street, Between Montgomory and Kearny, (over San Francisco I bave recently reecived from London a New and which is fur superior to any other ever used. It is light cleanly and durable, and of a natural color. The cheapest and best material for tennporary (aud in muyy cases) permaneut sets. All operations thoroughly performed
jed at ruasonable prices.

## L. F. LELAND,

 STOCK BROKER,No. 621 Clay street,
Owce Hours, 10 to 11, A. M.; $2 \frac{2}{2}$ to $3 \frac{1}{2}$, P. M.
Merber of the San Francisco Stock and Exchange Board

## New Bedford Copper Company.

THE UNDERSIGNED HAYING BEEN APPOINTED Ahar supplies of their superior manufactures of

Sheathing Copper;
Brazier's Copper;
Copper Bolts;
Yellow Sheathing Metal; Copper and Coasposition Nalls;
Wbich they offer to the Trais at the lowest market
 je. 29

Napoleon Copper Mining Company. Capital stock................. $\$ 1,620,000$. 2,700 Shares--\$600 Per Share,
Length of Lead 2,700 Feet; Lneation of Mine, Gophe
District, $\begin{gathered}\text { Culaveras county. Iucorporated } \\ \text { October } 3,1562 .\end{gathered}$

## President Sectretary Treasurer

- MacCRELIISH Treosurer
Superintend


## F. MA_CRELTIEH, TRUSTEKS.

F. FHIRENBACII, of Greeubery
A. J. MOUTAEL, of A. J. Mhulder \& Co,
6. BlUWWN, of Grover \& laker S. M, Co,
DUNCAN, of Duman \& Co.
C. DUNCAN, or Duman ECC.

C, Al.DEN, U.S, Coumissary Depart
W. TECKRR, of J, W. Tucker \& Co.
A. WOOIWHRE, of Alta Culitornia.
S. E. HoLCOMBE, of Holcombe Brothers.
W. L. DUNCAN. Seeretary Latifortia Pioneers.

Ofice of Company, No. 420 Mnatgomery street.
San Antonio Gold and Silver Mines, LOTVER CALIFORNIA,
Forwarding \& Minivig agency.
SAMUELSMI'H,
OFFICE-North West Corner of Frout and Clay Streets, San Francisco.
M $\begin{aligned} & \text { INLG MACHINERY AND MERCHANDISE FOR- } \\ & \text { ward, Ming Claims secured, }\end{aligned}$ YI warded, Mluing Claims secured, through the nished regarding auy eluim., in that 'lerritory, on cornnished rega
missiou.

## PEOPLE'S

Steamship Iine!
Connecting California and New York via nicaragea.
f50 niles Shot ter than any other Route: The Fast and Favorite Double Eagine Stoamahip,
MOSES TAYLOR, J. H. Bletien. Will be dispatched for SAN JUAN DEL SUR,
From Mission street Wharf
THURSDAY, - - - - JULY 23, 1863. Puuctually at 9 o'clock, A. M., on
Connecting at GREXYown with the Splendid Stor mbilip
AMERICA 2500 Tons.

Reduced rates of Passnge ned quick trips
by the re opening of the Nicarisua Reute.
These steamers are unsurpassed for sperd, cleanliness and safety, and every eforb will bo made to iusure the omfort of passenger
For further information apply to

$$
\mathrm{FOR}^{\prime} \text { SALE. }
$$

Patevt priserd russia iron maning pans.
Russin Iron Quartz Sercens for Mills;
Portaile Farger; Cuildron Keitics ;
Pumps, both Frame ansl Lift;
Lead Pipe; Rubber Hose;
Lead Pipe; Rubber Hos
Wrought Irou Pine;
Wroughtion Cocks
Cowking Stoves and Healiuy Stover ;
Tin Plnte: Shect Iron; Sheet Copper;
Fruit Cans ef Tarimus Kinds;
Lard and Butter Cana of ;all
Lard and Butter Cans of :all Sizes;
Irou Wire; Brass Wire; Copper Wire Irou Wire; Brass Wire; Copper wive;
Goppor Rivets and Burrs; Irua Rivets ; Etc.

## We are also manufacturers of the

## UNEQUALLED

MONITOR COOKING STOVE
OR RANGE,

## For Hotrls.

To which wo call particular attention.
je-29
TAY, BROOKS \& BACEUS.

## The Pacific Mineral Compnay

$\mathbf{M}^{\text {ake liberal advances upon the ores of }}$ Copper, Slluer, Tin, Nickel, Cobalit, Zing, Lead, and Sulfiurets containisg Gold. Due account taken of all valuable m matals coumbiued
with Silver and Copper Oros, und advunces made therc. with Silver and Copper Oros, und advuaces made therc
 amination, such leads are deomed sufficioutly' valuuble on justify such expenditure.

OFFICE, No 1 , ond FELIOWS' HAAL,
A. C. MORSE, Mining and Real Estate Agent, orgce-s. w. corner Pino and Silver sts, Aurora. With Miser S. Martis Kisq., one of the principa
Brokers of San Francisco. 1 am prepared to BUY Du SELJ. every descriptlou of jlining prepared to BUX and SELLL, every descriptlou of Dining stocks in Esme ralda District

## Mining and Stock Exchange,

Mining Slocks of Aul Rivisls Boughk d Sold Businesz connected with Mining Stacks of evnry deschip-
tion promptly and confidentially altended to. tion pronptiy and conficentially altended to

## MARTIN \& Co.,

OWFICE-..224 Montgomery Street, Up Stairs, will contract for the

## Purchase of Copper Ores,

Assaying 8 per cent and upwards of Copper to the Ton We will make ADVANCES upon Ores of COPPER, TIN Sacle will be
signmenta if dearnet by the consightara Paid on all con-
Henry Martin, J. F.Greenman,
New Yurk. Sun Francisco
Suu Fraucisco Post Offic, Box I259 je 1.

## New Patent Agency.

$\mathrm{W}^{\mathrm{E}}$ puave converind witu pus
The Patent Agency Business,
And would invite Inventers and Dizcoverers on the Pacille coust, who wish Dispatch as well as Econnmy to cal ton, which, together with our own experience of severa

Mining and Scientific Fress Ageney
Tho most ocsirable place to make application for Lettera Patent on the laciffe conat. Apply at Omter of the "Mining and Scientific Presp," Room ington streets, (directly opposite the Post oflice, San Fraucisco.

FOREJGN PA'TENTS OB'AINED y applicatiou at this oflce, Room 27, Federal Building.

EWER \& SMITH, Solicitors.

NOTICE TO INVENTORS.
nventors wishing to file Careats should apply at this Oflice, Room No. 27, Federal Building. Terms moiler-
EWER \& SMIZ
ate.

## PATENT RIGHTS.

Patent Rights Bought and Sold,
At the offee of the "Slining aud Scientific Press"" Ageney
"EWER \& SMTH.

## JMPOR'ANT TO INVENTORS.

Inventors who obtain thcir Patents through this offee can have their liventious illustrated and do-eribel iu
the columns of this paper Fres of charge, hey nicrely the chumns of this paper Frre of charge, hey nicrely
furnishing the engraviags. We are also prepured to furnikh eugravings at reasorable rates. Those whon do not care to gri to the expense of having engravings prepared cath have they inventions fully noticed and described in our columns, free of charge. The free use of our col-
umis to atid them in introducing ther inventions to the public will be found a mosit important advantage to in
ventors.
EWER \& SMITF.

## - To Mifining Companies.

FOR SALE-ASTEAM ENGINE AND EOHER. THE Eugine is 30 horse power- 10 inch cylender- 2 inch stroke-solif irsy frame, with heuter, pumps, etc,
all complete The boiler has 5 flues, is 24 fuet lumg, 40
inches io diameter, made up from the best three-cighth inches in diameter, made up from the best three-fighth
inch L nw Joor jrou, aud weighs aboul 5000 pounds. inch Low Hoor lrous aud weighs about 5000 pounds,
Both Eugine and Bniler are in perfect order and fulty guaranted. Alply to TH HABI, No. 211 Clayst.
San Francisco, June 18, I. H 88.
Offle of tho Nevadin Copper Mining Co. Mrech 24. J\$63.-At a meeting of the Board of Truates
held lhis day, an assessment of Forty Gents per share was levied upon the Capital Stock of the Gompuny, paywenty (20) cents per share within sixty days from thi date, to the Secretary. By order of the Irustepr,
W. B. EWER, EDITOR.

Bvery person at all acquainted with the focess of amalganating Ores, kuows that it necessary to reduce the ore to the finest fssible condition in order to ob'ain all the utal contaiued in it, and the quicker the fo it reduced to such a condition, the nore pid will be the the process. To meet this cessity has been the object of the invenon we illustrate te-day.
Most of the A malgramators now in use, are hastructed with mullers of some sort deFrod to reduce the ore while the amalgaation is going on, but the time required vafo according to the speed at which the mulfean be run without producing too much tation of the pulp. Some mullers do not hmore than twelve to fifteen revolutions If minute, and from six to eight hours are ihuired to reduce 200 pounds of ore to the guisite fineness, whilst other mullers run ch fuster and consequently do the work lek quicker.
I'ae Little Giant Avalganator, promisto du the work in much less time than any (er Amalgamator in use, when run at the ghe speed, as it has a:double grinding suWe copy the following description fn the proprietor's circular :
Pro 1 is a perspective view of the Lirvere fint Amalgamapor, with a portion of the fot of the pan renulled so as to slow the pltion of the mullers when in their proper
pis for working. The mullers A B C are pia for working. The mullers A
cstructed in the following manner :
is the bottom die furrowed or guttered, ajepretresented by Fig. 3, and lies in the biom of the pan, and is stationary when 1 , runner is in motion. $B$ is the runner, a) is furrowed or guttered on the hottom 8i, as shown hy Fig. 3, oxcept that the gers cross each other so as to work shearif like an ordinary mill-stone, whell grindin This runner rests on the bottom die. he upper side of the runner is guttered 0 urrowed. as represeuted in Fig. 2. The th of the plate, A, is furrowed or guttered - he bottom side, the same as the top side o he rumer is gattered or furrowed; and Win placed on the runner, the gatters are relrsed or made shearing, thus making a Elding surface. The top plate is stationaryput so arranged that it can be made to ry upon the runner by means of the scrows, 4 E .
e top plate has slo's or openings commuiDi) ting with the gatters or furrows, so that 6.pulp is contiunally running through them Wh wrorking. The pan is capable of amalguating from 800 to 1000 lbs . at a time : 81 from the fact that the top plate is stalihary, the multer can be run at almost any - 8 d desired without giving two much agitatin to the pulp. The construction of the iif and ruuner is such that the pulp is driven rom the center to the side of tbe pan in thoottom gutters, and from the side to the ceer of the pan through the top gulters,

Coleman's Little Giant Amalgamator.


EIG. I.
thus creating a constant molion back and forth through the gutters, and causing all portions of the pulp to pass between the grinders, and is thoroughly ground to an impalpable powder in about latf the time of any other günder in ūse. A most important point in connection with these griuders, is, that they are adapted to any pan in use, and those having other pans can have the mullers put into them at a small expense by forwarding size of pan and hub; also, the depth
of the pan.
'This pan may be seen in operation near

the Miners' Foundry, in this city, where: all interested are invited to call and see for themselves.
Since the above illustrations were prepared the inventor of this Amalgamator has added a new and important improvement, which it is believed will add largely to iis efficiency as an amalgamator. This improvement consists in easting the mullers with wroughtion strips in them, placed lengthwise between and parallel to the slots and
furrows o! the dies and plates. When the amalgamat $r$ is working the wrought iron stripa cast into the muller run against the similar atrips cast in the stationary dies, thereby producing the same effect on the pulp as is produced in the "barrels" when working after the Frieberg Process.

Mr. Fditor:-Your anuouncement of Prof. Ryerson's valuable discovery in purifying the air in Diving Bells, suggests some further inquiry as to the liberation of the oxygen in the crrcumstances mentioned. Will some of your readers favor the public by discussing the proability of the newly observed action of spray, being due to what is known as the action of contact with finely dividedsubtances, such as the combinations of nitroger, effected by pla-tinum-black-of hydrogen and oxygen by the sume-of sulphurous acid and oxygen by oxides of chrome and copper? Is it not that the increased surfaces of the numerous drops of water absorb and condense gases such as carbonic acid, and modify the chemical affinity of their elements?
A. Poor Chemist.

A Poor
San Francisco, Ju'y 10, 1863.
Progressive.-The Vulcan Foundry have found their Office too straight and narrow for them and have removed it to the rear, on First Street, and are now erecting a new and commodions Office upon the site of the old buildiug.

South Pare Quartz Mili.-As will be seen loy Messr:- Smith \& Co's Advertisement, we have a veritahle Quartz Mill in San Francisco. An examination of the Mill enables as to pronounce it also a very complete one. A moments' reflection will show its advantages at the present time. Persons coming to this city with cre of any description, can have it crushed at Messrs. Smith \& Co's, under their own supervision, and learn to a fraction the value of their ruck.

Lubricatina Oil.-Many substitutes have been proposed for the more costly oil for Inbricating machinery but hitherto with only partial success. An English patent consists mainly in the addition of caoutchouc to common grease the former being softenéd by spirit of turpentine; butit also containsother ingredients. For example: 10 gallons of water being heated, 1 pound glue and 10 pounds carbonate of eoda are sfirred in, 10 gallons of oil or grease are next added whereby a quasi soap is formed, and lastly 4 pounds caoutchouch, softened by terpentiae, are incorporated. The French process is as follows : Add one pint finely minced eanutchoue to 60 pints rape oil, and heat until the mixture is com-pletea-A very unctious nil is thus formed, which remains fluid at freezing temperature, and does not clog the machines, but facilitates the motion of their parts.

## MINING CORRESPONDENCE.

Notes of a Trip to Slife Range via Los Angelos aid El Paso.-No. 5.

Mesquit Springs, June 8 th, 1863.
Messes. Ewer \& Smith :-Your favor of May 13, came to hand on the 5th, and I have to-day received some paper which euables me to go on with my currespondence, also, Nos. 26, 27 and 28 of the Mining and Scientific Press, for which I am much obliged. I believe that I can get some subscribers here for that work, as soon as a little currency begins to circulate. At present no one seems to be made of coin in any way. All who come here to prospect are well supplied with provisions, and tools, and those who have been out long enough to require supplies, notify their resident partners, in Los Angeles or San Francisco, aud the goods are forwarded, and the bills of purchase and freight are all paid at Los Angeles or 'Frisco.
scarcity of change-sackett's express.
We would spend some change for paper, postage stamps, envelopes, \&c., if there were any here for sale. There are none except the few each may have in his packet, and we have to order a supply from Los Angeles, our nearest postoffice and 147 miles South, requiring 30 to 60 days 10 get returas.

Your tavors came by Sackett's Slate Range Express, advertised to leave Los Angeles promptly on the arrival of the Senator from San Francisco, taking freight and passengers, fare $\$ 10$ and walk all the way, and ten cts a pound for freight blaukets, provisions, \&c. On the 10th of April he arrived in Los Angeles from Slate Ravge, and now on the $\overline{\text { th }}$ th of June, he is within two days of Slate Range, on his back trip. When horse Express teams get over the road in such style what can be expected from ox teams which are more popalar on this route than horses.

## Ladrel hill and the mines generaliy.

About the middle of last month there was a general stampede of miners from all the camps to Laurel Hill about 15 miles Nortil and the end of the El Pasorange in that direction, leaving me to take care of the goods and chattels of three camps here. All still remain there and I am confined at the Springs and cannot leave to prospect or examine the claims which are taken up in this vicinity. Neither can I get any information fiom any one in regard to the first discovery of this District and its general history. I expect some of them back in a few days, to develop some leads which show very rich croppings.
There will be a number of tons of rock from various leads ready for shipment next week, and teams are expected to call for it, on their return from Owens River, Coso, \&c., \&c. I shall certainly be able to procure you some specimens next week and send them forward.

When we have returns from these lots soon to go forward we shall know more what to say of the District; at present we are quite in the dark, though our hope is large, and nearly every man has had experience in Slate Range, and considers this to be quite superior in some respects to that locality, and again a lead which will assay here one half as high as one in Slate Range would be equally as available, as there is water in plenty here, and wood can be delivered at less than half what it can there, and freight from Los Angeles can be landed here at half what it can at Slate Range. miLLS AND MTLL PRIVILEGES, ETC.
We are about 45 miles southwest from Tehachapa Valley, where Messrs. Bright and Lyons have a saw mill in successful operation on a living stream of waker, and they are preparing to erect a quartz mill of five stamps to run half the time. Again at Ōak Creek 45 miles sontheast, there is plenty of water power for a dozen mills, and we shall. soon have a chance to crush and reduce our rock, if we find it as good as it looks.
Gentlemen, as soon as you find our croppings to be worth working, say at an expense of 75 dollars per ton, you might offer that machinery you advertise on your last page, to some parties having good claims here, and thus receive a permanent interest. [We are anxiously watching for those "croppings."-Publishers Press.]
Some of our best leads are now offered as follows : The owners will deed one claim of 1200 to 1800 feet to any party who will sink a shaft on the same sufficient to confirm its value, say 30 to 50 feet, or tunnel to same depth, and

Messrs. Banning, Keller, and Moore of Los Angeles are now opening 10 to 20 leads on those terms, aud will soon ship the rock to Frisco to determine its valne.
It seens to me that large quantities of rock can be got out here now, from croppings, which will pay a profit to ship, though the charges are about $\$ 100$ per ton.
C. W. T.

## Silver Mountain, Hiast Fork of Carson, $\}$ Amador Co., June 24, 1863.

Friend Scientific Press:-Believing that many of your readers will be interested (I know that some of them will) in matters pertaining to this region, 1 give jou the following facts and speculations with regard to what must unquestionably prove, ere long, one of the best of all the new locations of the Eastern Slope.
Silver Mountain District is situated on Silver Creek, a tributary of the East Fork of the Carson River, some 21/2 to three miles above the junction. Silver Creek has at the present time a volume of something like a thousand "streams," (12 inches to a stream) and 1 am told that it will be little if any less during the season : probably it is never smaller than one half that, amount, and has such fall that I think a mill privilege can be located to av erage one in every 500 yards of its length. It flows a little on one side of the beautiful valley in which is sitasted the present town of The "Mountain," or as its earlier settlers call it, "Koningsburg."
The town contains some 300 inhabitants, is well supplied with stores; illy supplied with whisky shops (though there are many of them); has a lst class frontier hotel, a good restaurant, besides several boarding places where a hungry man can get his regular hash, a bakery, livery stable, blackswiths, shoemakers, one sawmill, another going up, and
some of the most promising mines ever found.
The Mountain No. 1, just incorporated, is undoubtedly the Comstock Lode of this District, if indeed it is not, as some assert, a continuation of that great Mother vein itself. An old mountaineer and prospector tells us that he has traced it through the whole sixty miles that intersect between this point and Virginia City. Certainly, from specimens of rock in my possession, it can be seen that an intimate relasionship exists between this and the original Gould \& Curry, and a number of conneisseurs have also remarked this to me.

Mountain No. 1, is a claim of 2750 feet in length, well defiued throughout its whole surface length, with at times, splendid outcroppings. It was discovered by a party of Scandinavians, by whom a tunnel was run in some 260 feet, which tunnel has struck the lode, here about 12 feet wide. Any quantity of rock can be obtained with small expense, which it is supposed will pay well for erushing.

The expense of transporting to a mill will be absolutely nothing as the ore can be thrown into a "shute" extending from the dump pile down some hundreds of feet to a magnificent mill privilege. Several well known capitalists are trying for this claimand a controlling interest must undoubtedly ere long change hands, as it can be obtained at very reasonable figures, its principal owners knowing well its great value, but willing to sacrifice something to expedite the the erection of a fine mill.
Northward of the "Mountain" Co. are the Mammoth, Silver Prize, and St. Charles, on all of which work has been or is being done. Southward, the 1st Extension is the Jefferson Co., who have ran a 30 feet tunnel and have up a nntice of another contract to let. Above the Moantain some hundreds of feet is the "Big Tree Company." They have a splendid out crop, and have let a cortract for 50 feet of tunnel which will probably strike their ledge, which they will getinto about the middle of Angust at farthest, judging from the energy of the Contractors.

And here let me digress for a moment from leads to speak of the needs of the District and the chances for laboring mev. There is an abundance of work for 1000 men in Silver Mountain alone. Daring 24 hours of my sojoura here, over eleven thousand dollars (so I am informed) has been pledged to build the road in from Hermit Valley to this great point. This will require the labor- of some seventyfive or one handred men forsixty days time. Nearly or quite that number are now employed on that part of the route between Hermit Valley and Big Meadows, (31 miles this
side Marphys) and when the road is complete from Murphy's to Silver Mountain, (ouly 56 miles) there will be money eubscribed very soun to carry it to the East Carson, down thro' the Monitor, Alpine and Mogul District to Washoe, by all odds the nearest, best and pleasantest route, pas-ing through as it does some of the most picturesque and grandly sublime monntain scenery on the globe. I'here are in this District probably 80 tunnels being run or shafts sunk, Laboring men get by the day $\$ 4$, but the most of the work is being done under contract, at from $\$ 121 / 2$ to $\$ 30$ per foot, at: which good drifters commonly make much more than day wages, even to as high us $\$ 20$ per day to the man. More tuanels would be commenced, more wori would be done, if there were more workers to do it, and what better feld preseuts itself to laboring men, considering in connection with the chance for gain, the absolute healthfulness of the location and the certainty of his getting his pay?
Next to the great need of labor is the need of roads, but this in some measure depends on the former, and the parties now in charge of the undertaking, will unquestionably find means to get their highway open early in September, so that, instead of as now, long lines of laboring pack-mules, the long line of mule teams will with their jingle of bells. make "Babel" in the streets of Koningsburg. More anon

## SPECIAL NOTICE.

Some weeks since we forwarded blank receipts to such o our subscribers as are in arrears for their subscriptions. Some have promptly answered by remittances of the amounts due others have notified us of special contracts with our prede cessor, or of full payments made to him and not credited ol our books. Where payments have thus been made, we have in every instance, allowed them. There are quite a num ber, however, who have returned no reply to the bills whicl have been sent out. We trast all such will respond imme diately upon seeing this notice. If payments have beel. made, we wish to be notified of the fact; so that due credl. can be given ; and if there are any to whom the paper is nov sent who do not wish to continue it or do not intend to pa : their subscription, we hope they will notify us of the fact si that we may discontinue sending papers to them. We d not wish to crowd the paper upon any man. All the name upon our list have been placed there, as subscribers, upol what we have deemed good authority. If any party, no considering himself a subscriber and in arrears, has receiv ed à bill for subscription, he will confer a favor by notifyia' us immediately of the fact. Postmasters are also reminde of their duty to return a paper that is not called for, etc.
Noxtce.-In our advertising columns, will be found th card-of Brodie \& Co., California Foundry, Fremont 'si near Market. In their particular line of business, makin plain and ormamental castings, for stores, private-house and public works, they exhibit workmanship creditable themselves and the city.
We would call attention to the Card of D. Morri in our Advertising columns to-day. Those wanting Fir proof Safes made or repaired, will not find a better workms in town, than Mr. Morris, 227 Market Street, corner Beale.

Excelsior Tron Works.-The Card of Gallagher Kenney, Manufacturers of Architectural and Ornament Iron Works, will be found among our new Advertisement to-day. These gentlemen are prepared to execute eve kind of work in taeir line, with dispatch, and in a style to be excelled by any other Manufacturers.

We would call attention to the Card of H. C. Kibbe, Es Mining Secretary and Commissioner for Nevada Territo which will be found in our advertising columns to-day. A business entrasted to his care will be promptly attended

Kamptulican.-Lieut. G. Walton, of the British Na has proposed a mixture of sawdust and caoutchouc un the name of kamptalican, as a linigg for iron war vesse The inventor claims that from its elarticity, it will imme ately colapse when penetrated by a ball, and thus previ the entrance of water. It also deadens concussion, and its buoyancy will keep a vessel afloat though it shonld riddled with shot, and moreover will prevent loss of life ca ed by splinters. [The Cormplanter and Mechanic.

## MINING AND SCIENTIFIC PR心SS

LIST OE MINING COMPANIES HAVING OEFICES IN SAN FRANCISCO,


## COPPER-ITS PRODUGTION AND DEMAND.

Copper is one of the six metals spoken of in the Old Testanent, and one of the must important of the seven which were knowu to the aucients. The earliest artificer known in history, Tubal Cain, accurdiug to the writer of Genesis, was a worker in "brass," which is an alluy of copper. This testimony of the sacred Writ is somewhat cunflectiug with the text of the ancient Greek Histurians, who attribute the discovery of copper to C'adurus, who lived cotemporary with Joshua. Whether the discorery of cupper should date from the days of Tubal Cais or Caduus, there is certainly abundant testimony that it is at least one of the earliest known metals. Aside from its mention in the most ancient records, it is readily supposable from the nature and mode of its occurtence, hat it must early have come into usse for weapons of defence and utensils of indastry. Occurring as it frequently does, massive and native, and often detatched, by water, frum its origibal matrix, it is most reasouable to suppose that it must have thus been found at an early day, in localities where warlike people resorted to seek stones with which to shape their instruments of war: or out of whieh to form those instruments. The peculiar lustre, weight, and maleahility of this metal would naturally altract attention, and thus, it is more than probable, that copper wae the first metal upon which wers essayed the earliest at tempta at primeval smithery. Perhaps we might, with a kigh degree of probability, divide the honors with the ante and the post-diluvian celebrities, by according to Tubal, or his ancestors, the discovery of the native metal, while his post-diluvian rival in the honors of discovery might have taught mankind how to obtain metal from its ores.

Copper, either of itself or in its alloy: with tin and zine, for a long period of time, doubtless, constituted the chief metal employed in the arts, agriculture and war. It must have entered largely into commerce at an early day. Th Colossus of Rhodes, which was constructed of an alloy of this metal, affords a most convincing proof of its great abundance at that time. It is stated that the canal which was dug across the Is hmus of Suez, by the Ancient Egyptians, the remains of wh ch have been unearthed, in places, by the present effort, in that direction, by Louis Napoleon, was constructed chiefly for the purpose of connecting the copper producing countries of Arabia with the region of the Nile-another evidence ef the great abundunce of this metal at an early day.
The remains of ancient copper mines are to be seen, at this day, among the Ural Muautains, which were worked by copper tools, as is koown from their remains, and of course at a period anterior to the introduction of iron for the manufacture of tools.

It is only, however, siace 1830 that copper has been pro duced in anything like its present abundauce. In that year the total amount of copper produced throughout the world was but 25,500 tons ; in 1840 the amount produced was 41,000 -nearly doubling in ten years-in 1850 , the production had reached 54,700 tons. The product of 1860 is es timated, by competent judges, at 70,000 tons. Yet, rapid as has been the increase within the last thirty years, the price of that metal has risen very notably.

When the world was startled by the first reports of the wonderful gold discoveries in California, the opinion seened to be pretty generally entertained that, under such prodigious supplies of the precious metal, its value must depreciate. The same question again agitated the commercial world when the extent and magnitude of the remarkable silver discoveries of Washoe became fully known. Notwithstanding the fact that guld and silver still maintain their value and promise to do so to an iudefinite future, we yet find a similar class of predictions in ragard to the supposed cansequences to result from the immense proapective increase of copper from the newly discuvered mines of this State.
In examining this question briefly it may not be amiss to lcok a little into the past. As will be noticed from what we have already said, the history of copper mining has commenced a new and important era withia the last twenty-five years. During that time its production has fuily doubled, and yet we find the refined metal (though subject to considerable fluctuations) constantly increasing in price. By reference to English statistics we gather the following fact: in reference to the amount of copper ore sold in Eugland
and the price of the refiued metal, in the British Market
$1800 \quad 55,681$ tons of ore suld $\$ 586$ price per ton $\begin{array}{lll}1800 & 55,681 & \text { tolls of ore sold } \$ 886 \\ 1810 & 66,14+8 \\ 1420\end{array}$ 1820
1830 1830
1835 1840 $184 \overline{0}$
1850 1820
1952 1952
1854 1856
1858
1858
1859
From the above it will be perceived that notwithstanding the constautly increased production of copper in Great Britain the price of that metal has advanced fully fifteen per cent. since the commencement of the present century.

Again, let us refer to statisticts of our own country. The yield of the copper mines of the nited States and Canada for the year 1840, was but 100 tons; we have no dala for fixing the value of the metal oth $r$ than by the ruling price in Great Britaiu, which was $\$ 5042$ per ton. In 1850 the yield of our mines had increased to 650 tons, and the price of copper in New York was $\$ 420$. We subjoin a talular sta, ement, derived from the best authorities, of the value of copper in the Now York Market from 1850 t the present time, together with the production of that metal in the United s'ates for the years 1852 , '63 '57, '61, and an estimute for the pres ent year :

| Year. | Market Value per Ton. | Tona Protuced. |
| :---: | :---: | :---: |
| 1850 | \$420 | 650 |
| 1851 | 425 | . |
| 1852 | 425 |  |
| 1853 | 583 | 2,000 |
| 185.4 | 546 | ... |
| 1855 | 567 |  |
| $1 \stackrel{5}{6}$ | 535 |  |
| 1857 | 260 | 3,000 |
| 1858 | 463 | ... |
| 1859 | 460 | $\cdots$ |
| 1860 | 441 |  |
| 1861 | 425 | 7,500 |
| 1862 | 567 |  |
| 1863 | 690 | 12,000 |

It will be observed, from the above, that the advance in the price of copper in the United States has fully kept pace with the adrance in the English Market.
The annual consumtion of copper in England, at this time, is about 30,000 tons, about one third of which is obtained from her own mines. Germany consumes about 20,000 and France about $1 \overline{0}, 000$ tons of copper aniually. The consumption of the United States for the present year is estimated at 15,000 tons, and that too, in face of a most unprecedented advance in price, while our production of that metal is estimated at only 12,000 .
The recent discoveries in this State will doubtless exert considerable influence upon the copper market, when the mines come to be thoroughly opened. But the effect produced will not be of greater value than the fluctecations noted above, in both our own and the Euglish Market. The constantly increasing demauds of commerce, and the innumerable purposes in wtich copper may be employed as an alloy, provided but a small reduction only, in price is effected, w.ll so increase the demand for this metal that our copper miners need feel no uneasiness lea=t their stalwart arms or rich ore producing mines shall so glut the market of this metal, as to bring its price down to an unprofitable staudard. Let our copper mines prove as rich and productive as the most sanguine may hope for, a mine producing shipping ore of a fair quality and in good quantity cannot fail to become a most valuable property, and as safu an investment as can be found in any branch of business.

195 $\mathrm{W}_{\mathrm{E}}$ are receiving letters almost every day from parties who say that they have "struck it rich," and by the aid of knowiedge derived from articles in the Mining and Screntific Press, have been enabled to distinguish what was valuable. One correspondent writes that he was led to examine certain rock, by reading an article in the Press deseribing ore, and found it to be very rich ore, Had not his attention thus been especially directed to it, he would in all probability, bave passed it over in atter ignorance of its valne. Anothor says, "I was first led to notiee copper rock by articles is your paper, calletl the 'Miuers' Laburatory,'
and found it to be a rich lead, but, what is strange. I had previously walked over the spot a thousand times without suspecting it to be of any value."
It is a source of uosmall congratulation with us to learn from the miners themselves that we are making the paper valuable to them as a claes. All the return we ask is
that our mining readers will do what thy can to aid as in that our mining readers will do what thy can to aid us in
giving the Priss the largest amount of circulation possible throughout the mines, as well as in the great commercial cities of the State.

## A VERITABLE GOLD MINE IN SAN FRANCISCO.'

For several years past it has, from time 10 time, been announced that gold bearing, and other metalliferous rock bas been d scovered in and near this city. That such ruok has been fonnd, as isolated specimens, or in very small quantities, is beyond a doubt. But we opine that it is only with. in a few days, or weeks at most, that grold bearing rock has been discovered in any considerable quantity. 1t appears now, however, a pretty well authenticated fact, that an immense mas: of auriferous quarta, of a bighly metamorphic character, has been protruded upward throngh the bed of slate upon which this section of country rests. How ext of sive this protrusion may be we cannot say; but atall events the high ridge, just back of the Mission Dolores, with the two rocky prominences nearest that location are capped, if not ribbed, with an immense mass of porpliyritic quartz, in a highly metamorphosed condition, and presenting to the eye of the practiced miner, strong auriferous indicatirns. We are assured furthermore, by parties in whom we have every reason to place confidence, that gold can be obtained, by ordinary pounding of the debris of the rock, to all appearance in workable quantities, over an extent of country from one to two miles in length, by from fifty to five hurdred feet in hreudth. Mil ions of tons of this rock crop out upou the surface, in some places presenting almost perp itdicular masses, and scores of feet in extent and height. Some eight or ten Companies have already been organized, and active preparations are in progress for thoroughly teating the value of this discovery. One Company has had several lots of rock crusht $d$ in the city and subjected to the panning and amalgamating process at the Miners' Foundry, with results varying frm $\$ 20$ @ $\$ 10$ per ton. We have seen one lot of amalgum, weighing six ouncos, taken from 1000 tbs. of ore which was still undergoing a furiher process of treatment. This rock was taken from the surface, with even the moss clinging to it, and thoneands of tons more of precisely similar rock is in plain view-in fact a perfect mountain of it! The owners of this claim purchasep their title from Spanish Grant, before the knowledge of the existence of the go decame known, paying therefor $\$ 30,000$. A large number of claims have been staked off.

Old Dr. Beecher's Idfa of Meaven.-"Excepting exception from sin, intense, vigorous, untiring action is the greatest pleasure of mind. I could hardly wish to enter Heaven did I believe its inhabitants were idly to sit by purling streams, fanned by balmy airs. Heaven, to be a place of happiness, must be a place of activity: Has the far-reaching mind of Newton censed its profound investigation? Has David hung up his harp as useless as the dusty arms in Westminster Abby? Has Paul, glowing with Godlike enthusiasm, ceased itinerating the universe of God? Are Peter and Ayperian and Edwards and Payson and Evarts idling away eternity in mere psalm-singiug? Heaveni is a place of restless activity, the abode of never-tiring thought. David and Isaiah will sweep nobler and loftier strains in etervity, and the minds of saints, unclogged by cumbersome clay, will forever feast on the banquet of rich and glorious thonght. My young friends, go on then ; you will never get through. An eternity of untiring action is before you, and the universe of thought is your field."

New Weapon.-The manufacturers of Sharp's breachloading pistol have produced a new weapon, which though weighing but 24 ounces, is capable of bringing down a squirrel or a bird at a thousand yards distance.

The "no Cards" Mania."-The no cards mania is extending. The Canada papers attach "no cards issued" to their funeral as well as their marriage nutices.

## THE MINING SHARE MARKET．

The Mining Stock Market fur the past week has been pactive，especially in realing shares．Tho transactions ive been mustly of a speculative character and in middle luse stucks．
The Gould \＆Curry has declined a sliade further and may kow be quoted at so，ju0．
Opher is held firmly at previons lates．A dividend of $\$ 48$ or foot was declared on the 9 th instant．
Savage maintains last quotations．It clused at $\$ 3.500$ ． Chollar is firm at a slight advance．A large quantity of fock frum this mine is now being crushed，the result of hich is anxiou－ly looked for．
Sacramento has advanced about $\$ 20$ ，upon rumors of a ompromise with the Meredith．
Considerable speculation bas been noticed in tne Pride f the West and Buckeye，both of Devil＇s Gate District， ach of which is beginning to attract attention by reason of foomble developments at the mines．The shares of 1ese Companies have advanced about $\$ 50$ to the foot，dur－ go the piast week．
Wide West has been quite largely dealt in at improved， hough fluctuating rates．It has been the favorite of the reek， 342 feet having changed hands ut $\$ 160$＠$\$ 200$ ．
An increased attention is being given to Humboldt shares． heha has been quite largely dealt in ； 136 teet having hinned hands the past week at rates varying from \＄400＠ 450 ．A quantity of ore from this mine，is now on its way $b$ Frieberg，where it will be worked after the most approv 1 Geramo process，as a reliable test of the value of the no mine．
The chief exciting mining topic of the week has been the portive attempt to dispussess the present occupants of the Imaden Quicksilver Mine，by virtue of an obsulete Con ressional Act of 1807．Fortunately for the State and fountry the attempt was foiled by a brief telegraphic cor－ sspondence with the President，who has stayed all imme－ fate action in the watter．
Another matter of nearly equal interest，is the announce－ ent of the transfer of the Mariposa Estate to a mam－ oth New York Company，who have organized with an suo of Shares representing Ten Millions of Dollars．＇The ew Contpany assumes all existing liabilities of the Es－

## THE COPPER INTEREST．

Copper still continues to absorb much interest，and the porto from the mines are quite as encouraging as hereto－ re．We have elsew here thrown out a few hints which it ay be well for all parties to bear in mind．An undue ex－ tement will result in no general advantage，but may lead muchindividnal disaster．
A correspondent writes ：＂At Sult Springs，to the north－ ard of Cepperopolis，the D＇Jue Company are taking out rge quantities of blacks sulphurets of copper from a vern jren feet in width．One interest of 200 feet in this mine $\beta$ been sold for $\$ 4,000$ ，within ten days．The New Era jompany who hold the extension on each side of the I＇＇Jue， e sinking on their South claim，and at a depth of about xty feet have struck the same indications．Negociations ye now pending for the purchase of their North claim by e agent of some Parisian capitalists who have recently ar ved here．The D＇Jue and New York Co＇s expect soon to ＂ve ore on hand for shipment．＂
In Plumas and Placer Counties，a like excitement exists hd shafts are being sunk and tunnels run with some pros－ pet of success．
There are now numerons buyers of copper ore in the mar－ et，deliverable in this eity，for shipment East．The Cali－ rnia Smelting Co．arealso buying for their works at ntioch．
The Union，so far，is the only dividend paying copper ine．
The Oriental has sufficient ore on the surface to pay all cpenses to date，and leave a surplus．They will soon com－ ence shipping．Several Companies will soon commence aying dividends．

## general minivg stock report．

## At the San Franefuto Hining stock Board，

For the week cualiug July 21，1863．
Namen of
Comparies．


## virginia city stock list．

Corrected for tho Minsug aud Scientife Prus5，Tbursday，July 9， 1863.

| Bid．Ask＇d |  |
| :---: | :---: |
| Virginia Mining District． | Sierra Nevada ．．．．．．．${ }^{\text {P }} 60$ |
|  | Sturamuntu ．．．．．．．．．．．．． 80.818 |
| Anblatud．．．．．．．．．．．．．${ }^{\text {a }} 9{ }^{\text {a }} 10$ | ：ilnimrock ．．．．．．．．．．．．．．-15 |
| Aschisull ．．．．．．．．．．．．．．．．．．． |  |
| Alturus．．．．．．．．．．．．．．．．．．．．． 3 －${ }^{\text {a }}$ |  |
| Belvidert ．．．．．．．．．．．．．． 25.20 | Ukhh．．．．．．．．．．．．．．．．．．． 75100 |
| Brrdsail ．．．．．．．．．．．．．．．．． 20.25 | old Virgmia ．．．．．．．．．．．．．．． 250 |
| Bajazet aud folten kita．．．． 3650 | Warhivglon ．．．．．．．．．．．． 5 |
| Buraside ．．．．．．．．．．．．．．．．． 16 20 | York．．．．．．．．．．．．．．．．．．．．．．${ }^{3}$ |
| Burnmy Mutcow．．．．．．．．．． 150 | Youave ．．．．．．．．．．．．．．．．．．． 17 ． 20 |
| Beacli－Pıaxtoll．．．．．．．．． 6 95 125 |  |
| Bloomiugdate．，．．．．．．．．． 4 ¢0 | Gold Hill Distriot． |
|  | Alpha ．．．．．．．．．．．．．．．．．．．． 500 750 |
| Codar hill Junuel．．．．．．．．．－ 5 | Bultic．．．．．．．．．．．．．．．．．．．．． 16 ． 20 |
| Cole ．．．．．．．．．．．．．．．．．．．．．．${ }^{8} 14$ | Bullion ．．．．．．．．．．．．．．．． 30100 |
| Conmercial ．．．．．．．．．．．．．． 1520 | Belcher ．．．．．．．．．．．．．．．．．． 12001400 |
| Consolidated Cedar Hill．．． 3 31／2 | Branch Mint ．．．．．．．．．．．．． 7 |
| Durgan．．．．．．．．．．．．．．．．．．．．${ }^{\text {a }}$ | Calcdonial ．．．．．．．．．．．．．．．．． 50 ． 65 |
| Empire．．．．．．．．．．．．．．．．．．．．－ 6 | Сорpers ．．．．．．．．．．．．．．－$\quad 25$ |
| ElSmrad．．．．．．．．．．．．．． $80 \cdot 80$ | Fureka．．．．．．．．．．．．．．．．．．． 15 20 |
| Fairview ．．．．．．．．．．．．．． 200220 | Furcade \＆Ricurd ．．．．．．．． 6 |
| Grasn Valley ．．．．．．．．．．． 80.800 | Gold Hill，Biy Ledge．．．．．． 50 60 |
| ［Hzel Green．．．．．．．．．．．．． 57 | Ginlden Gate |
| Hurrison，Virginia lucurpo 1825 | Gouden Jagie（Nu，1）．．．．．． 12 12 |
| Harrisou，San．Fran．Incor．－ 5 | Hawkeyc．．．．．．．．．．．．．．．．． 20 20 85 |
| Irving．．．．．．．．．．．．．．．．．．．．${ }^{\text {a }} 10$ | Hudson ．．．．．．．．．．．．．．．． 200250 |
| Іпнигацес ．．．．．．．．．．．． $30.31{ }^{35}$ | Kol－i－noo |
| Iowa．．．．．．．．．．．．．．．．． 115120 | Leon．．．．．．．．．．．．．．．．．．．．．． 6580 |
| Irousiles ．．．．．．．．．．．．．．．．．${ }^{5}{ }^{6}$ | Laboring．．．．．．．．．．．．．．．．．． 1215 |
| Indus ．．．．．．．．．．．．．．．．．．．． 10 10 12 | Lucurne．．．．．．．．．．．．．．．．．．－ 18 |
| Jubiata ．．．．．．．．．．．．．．．．．．${ }^{\text {\％}} 10$ | Miгу Аиш．．．．．．．．．．．．．．．．． b $^{\text {b }} 60$ |
| Kеувтопе．．．．．．．．．．．．．．．．．． 2530 | North Americall．．．．．．．．． 70880 |
| Kcmosha ．．．．．．．．．．．．．．．．． 610 | North tphir．．．．．．．．．．．．． 10 |
| La Crossc．．．．．．．．．．．．．．．．．．．．${ }^{9} 10$ | Overmaw，．．．．．．．．．．．．． 20.200 |
| Lancer ．．．．．．．．．．．．．．．．．． 10 12 | Oriental ．．．．．．．．．．．．．．．．． 5 |
| Mente Cristo．．．．．．．．．．．．． 2530 | Omega ．．．．．．．．．．．．．．．．．．．${ }^{\text {a }} 500$ |
| \＄leredith．．．．．．．．．．．．．．．．．． $5_{5}^{50}$ | Priucoss ．．．．．．．．．．．．．．．． 112125 |
| Mt．Davidson．．．．．．．．．．．．．．${ }^{5} 6$ | Sitalon ．．．．．．．．．．．．．．．．．．．．．． 15 20 |
| Massilh ．．．．．．．．．．．．． 10.12 | Swrezy |
| McBee ．．．．．．．．．．．．．．．．．．．${ }^{\text {－}}{ }^{25}$ | Stepheason－Kehav．．．．．．．．． 88 |
| Milton．．．．．．．．．．．．．．．．．．－ 100 | Unıon．．．．．．．．．．．．．．．．．．．．． 40 4 45 |
| Monarch ．．．．．．．．．．．．．．．．．－ 72 | Yellow Jucket ．．．．．．．． 15001600 |
| Madison．．．．．．．．．．．．．．．．．．${ }^{24} 30$ | Unele Snm．．．．．．．．．．．．．．． $2^{5}$ |
| Mohegatu ．．．．．．．．．．．．．． 10 J 510 | Yolo ．．．．．．．．．．．．．．．．．．．．．－ 10 |
| Nurton．．．．．．．．．．．．．．．．．．．． $1_{2}^{5} 15$ | Devil＇s Gate District |
|  | Goveruor Nye ．．．．．．．．．． $10{ }^{15}$ |
| Osc¢о⿱二小．．．．．．．．．．．．．．．．．．． 12 15 | Hawley ．．．．．．．．．．．．．．． 30 |



## THEATRICAL．

McGuire＇s Opera House，the present week，has been nc－ cupied，up to Thursday might，with＂Lady Audley＇s Secret，＂ a dramatised version of Miss Brandon＇s novel，by Miss
Western．No piece，in our Western．No piece，in our opinion，has been presented
to the public，more deserving of the patronage it has receiv－ ed．It is，throughout，artistic，harmonious and trethful． The performance has been highly miritorious．
On Friday a new piece，called the＂Declaration of Inde－ pendence of 1776 ．＂by Mr．Howe．a well known resident of this city，was fresented．From an omission of the usual c mplimentaries，we are not at present able to report upou its merits．
The Eurfasa．－The Minstrels，this week have given their usual amount of fun，and received in return a corresponding amount of patronage．Two new pieces of interest have been presented．The one a song by a member of the Fire Brig－
ade，in answer to the popular，ballad＂When this cruel War ade，in answer to the popular，baliad＂When this cruel War
is over．＂It is considered a success．The other is a musi－ cal burlesque of＂Ihe Happy Man，＂with the scene laid in Japan．

Platt＇s Hall．－The attraction here is Wilder＇s grand representation of the W．ar，It has been well and fashiona－ bly attended，and is well worth seeing．Many of the scenes have a local interest，such as the death of Col．Baker，etc． We hope unother and final one will soon be added－the last battle field of the war and the surrender of Gen．Lee．

Origin of Mind－Man and Animals．－Phrenlogists re－ gard the mind as simple，and that its substance or essence is unknown．＂Mind，with all its fuculties and functions， has existed since the creation，and will exist till the human race shall become extinct；and no opinion of man，concerning the cause of its phenomena，can have the least influence over that cause itself．＂＂When we inçuire into the qualities，we find the thinking power in man to differ，not only in degree， bnt in kind，from that of the lower animals．He posseses moral sentiments，religious emotions，faculties of investigation and combination，of analysis，induction，which are denied to them．We are entiuled，then，by a legitimate exercise of reflection，to conclude that he is designed for another and a higher destiny than that which is allowed to them．＂

## THE <br> BRYAN BATTEIRY. <br> The vasp interest involved in the reduction of ores on this coast, renders it of the highest impritance that the <br>  <br>   ready been spent upou the various experiments in this class of sabininery, and it is an fuet well known tis all Who bave had ang practical experieuce in ihe matter, that every new process developed during he past tivelve years, has been set down as a failure. The ordiuary Stamp Battery

## ALONE STANDING THE TEST.

This, with the Impravements which Experience has suggested is
only roliable

## METHOD OF CRUSHING ORE.

The Brans. Batriry, as now constructed, is helicved
ocombino all the improvemeds which tho experierco to combine all the improvements which tit
of the past has alforded. They have been

## EXCLUSTVELY ADOPTED

by mavy of the mast prominent Mining Compannics in the
country, and have beent, for the tliree puite ymars, sulbcountry, and have becc, ror the ellree puist yaras, sult-
jected to the severest of all test- that of coustant use-


Effective, Substantial and Reliable.
Thoy are now extensively used throughout. the mideral regions of California, Nevada and Mlexieo, and have establisherd a clnim to public confidence, nover yet
equalled ia any piece of machinery.
These Mills are constructed alinost entirely uf Iron,
and, consequently, aro not affected by the intonse heat and, consequently, nre not affectsal by the intonse heat and drynsss of atmosphere,
tied. They aro adapted to
BOTH WET AND DRY CRUSHING,
and are warranted to reduce, with the same weight of
Stamps, 25 per cent, more rock than stams, Elich Battery is couplete in itself, and forms a
use,
perfect mill-while any number of them can be added at a subseqent time-thus preserving the symetry and uniformity of the 4ili

As nn evinence of the increasing faver with which
these milis are regarsen, we wanld mention then these milsare regarsed, we wanld mention that the
Celebrated Ophir Company first introduced them into their works in 1880, und havo been addiug a number of Batteries, each subsequent year, until they now have
Nineteen, runuing Seventy-six Stamps,

They are perfoctly fitted and set up at our Works, be-
foro shipping, each pieco boing marked and numberod fore shipping, each piece boing marked and numberod,
so that they can be put up and spt at work in ten hours after arriving ou the ground. They aro made of two sizes with four aud five Stamps, etc. The Four Stamp and the Five Stamp about 7,oon. The Mortar Bed, when desired, is cast in sicetions, so that tho mills can bo pack

We annex the names of n few well known Companies Who have adopted them-running from frur to seventy
five stanaps cach-to wbom refereuce is mado:
Ophir Mining Co., Washoe Valley,
San Marcial Oo., Mexico,
John D. Winters \& Co, Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co., Fii ginia City, Tajo Mining Co. Mexieo, Sheba Mining Co., Humboltd.
Lotta Mills Coo., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co., Owen's River, Uuion Quartz Co., Aunara, Triunfo Mining Co., Mexico, Napa Quartz Co., Aurora, Petaluma Quartz Co., Gold Hill, Francis Mellus \& Co., Slate Ravge, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso, Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Niscaragua, Gibbans \& Clayton, Esmeralda,
Smith \& Clouser, S. F. Reduction Works, Amagoza Mining Co., San Bernardino,

## mandfactured only by <br> GODDARD \& CO., <br> At the Pacific Iron Works.

SAN FRANCISCO.
os 125 to 136 First strcet, and 176 to 144
P. DONAHUE. H. J. BOOTH. . c. S. HIGGINS.

UNIO
IRON AND BRASS FOUNDRY. (The First Established in the State.) Coringr of First and Mishon Streets, San Francisco. H
 Thy on the Pracitic Coast.
ice, Locrmotive oure nreparell to furnish, at short no ry, size and description.

## BOILERS.

Lncomotive, Flue, Tubular, Upright and Cylinder, furnisllerl with or without engines, complete.
Machinery and Castings of every deseription, Saw-
nills, Grist Milla, Car Wheels. Derrick lrouls, etc. QUARTZ CRUSHING BATTERIES, Embrac
Palterns.
AMALGAMATING MACEINERY,
Varney's Improted Patent Pans and Settlers, Wikely
Pans, Amplyumating Tub, Plaistod's Grioders, Cuille Pans, Amalgumating Tubs, Pla
Mills, Concentrators, cte., etc.

MINING PUMPS.
Crrnish, Lift and and Furce Pumps, from four to
ight feet stroke, with Pipes, Bob Miountings, and Geareight feet strok
ing complete.

## HOISTING DRUMS.

For Slafts or Inclines, with clutch, friction or $V$ cone Sole Agconta and Manuirneturers for, the Pacifec Coast,
C. aud \& G. M. Wondwar,'s Celebrated Patent Sarct Steain Pumps and Fire Engines.
All Coutracts and Orders exceuted with promptness
nad dispatch, and at reducerl prices for Cush. jc2I

DONAHUE, BOOTH, \& CO.

## Giffards Injectors,

For supplying boilers with feed water If Withont Pumps No Mill or Manng Company
shourd he withot one of these valuable tustimnents. Send for a Circular. DAVD STODART, Agent,
je22 Cor. Pine and Front Sts, San Francisco.
I. C. E. KLEPZIG \& CO.,

GUN MAKERS,
DEALERS IN GUN MATERIALS, 733 Washington strect, San Francisco,
[Oue Door above Kearney strout.]
Repairing done in a workmanlike manner at the shorGildiug, and also Silver Plating, by E. Ekland. je21

## CORNELL'S

## EXCELSIOR GALLERY,

G50 Washingtonst. Thrce doors belov
Faviug refitted the ibuve rooms the undersigned is Monv perpred to furnish thic plublic with a auperurs style
of Pieture, at $u$ lower price that over bofore offered in the city. CARD PICTURES. As I hare overy facility for produring these heantifu ictures, in all their differeat carielies, I have reduce \$3 Per Dozen and $\$ 2$ Per Half Dozen Large size Photographs. \$3-Extra copies \$1 each. AMBROTYPES in all Styles and Prices.
OLD PICTORES copied with care and accuracy, in any
(yio desired, Partueular atleitiou paid to piciures of Atylo desired, Particular attestion paid to pictures of chilidren, licurs painted in Oil or Water Colors, and rewuched in lundia lok by a competent artist. R. H. CORNELL.

## BAUNCHEIDTISM,

The Preserver and Producer of Life
THE EFFFECT OF BAUNCHEIDTIGM AS A METHOD OF and cieding no mose proor. The publechis has crowned Bumuchleidtism aiready with an extraordibary patronage, and
it is acknowficdged by all men of sceencee that BAEN-




 that he is berfect master of the latter, $D$. D . BORCHERS.

P. M. S. C 0 .

PACIFIC MAIL STYAMEHIP COMPANY', road with the stcamers of the Alantic and Pacific Steamship Compauy at Aspinwall.

FOR PANAMA.
The following steamsliprs will be dispatched in the
montli of May, 1863 . month of May, 1863.
July 3d,
July 13 h h, July 23d, . . Steagner Constitution

Will letwe Fulsnm Street Wharf, with Passengers and
AT $90^{\circ} \mathrm{CLOCK}$, A. M., PUNCTUALLY
And connoct, vis Panama Railroad, at Aspiuwall, wi

je4 Corner of Sucramento and Leintusthrin sts.

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowletged by all who have examined the principles and wituessed the opreration of these Pans, that they are decidedly saperior for tritur
mating purposes to any other in use.
The ninst important principle connceted with the opeprocess from thit of extractiug the amalgam from the saud. The ehiet causo of losa of the precions metals uri ses from the passing off of the same in combination with
tho quicksilver, during the proces of trituration, and in ceaming 11$]$ By the introduction of the Separating Pan
to f. How the trituration this loss is entirely aveidud workng theso macbines there is bo appreciable loss o
quicksilver, and hevee none of the precious metulf. Where these l'has have bcen infroduced aud operate oy the side of others on snads from the same vat, the
Wheeler l'aus have uniformly gainud a large percentage Wheeler l'aus bave uniformly gainud a large percentage
olmetals over its competitors, as well as a still larger Imetals over its competitors, as well is a still larger
parcentage in the amount of work performed. *** These Pans man be scen in daily operation, at the
Miner's Foundry, on First street in this city, where al ntereated are invited to call and cxamine for themselves 2016 -tf
zENAS WHEFLER.

## A. ROMAN \& Co.,

Book Establishment, 417 and 419 Montgomery street, SAN FRANCISCO.

Orders reapectfily solicited and promptly attended to
Tratise on Metallurgy, Comprisiug Minng and Gen oral and Particular Mntullurgicil Upurations, E'tc
Manual of Mutallurgy, or A l'ractical Treatise on the
Chemistry of Metals.
Records of Mining and Motallargy, or Facts and Mem-
ornodn for the Use of the Mine Agent nad Smelter
By James Phillips and John Durlington
funtal of Metallurgy, mire particniarly of the precious
metals; Dut includ ing such others as itre employ
in deltal lpactice. Practical Mineral Asay ing and Jining. Overman Gold Miniug and Aasinying; by l'hiths.
Miners' Companion and Guide, compiled by Silversmith
ner Guldo; or Tractical dirct
ners aud smelters
Praclical Assaying, by Michell.
itver Ores and Silver Mines, liy
Pver Ores and Silver Mines, by Pro. Blake.
Ure's Dretionary of Arts, Manuractures and Mines. Ure's Dretionary of Arts, Manutactures and Mines.
Weisbach's Mectaanics of Machinery aud Engincering Nevillo's Hydraulic Formula Tables.
Together wieh many other works in this
(02. Books anderted to order lines
A. ROMAN \& Co.
417 \& 219 Montoomery streot
P. M. STEAMSHIP COMPANY.

NOTICE.
Unturnather nitice, the stamer or
$3 \mathrm{~d}, 13 \mathrm{th}$ and 23 d of each month.
When any of the above rat $s$ fail on Sunday, the steam
will be dispatched on the following Minday
Wm, P. TAAFFEE, ymporter and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and Sacramento strects,
San Francisco.

## REYNOLDS <br> Patent Cut-0ff and Governos FOR STEAM ENGINES.

127 of these Invaluable Sachinem,
ARE NOW IN USE
In California and Nevada Territory, giving a perfect Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

Is the CHEAMES, SIMIYAST and QUICKEST to tre. It can be neen in uperation at the Goldeu State Ir Wurkn, and at the Stome Breaker, foot of Market Stree

## Clark'sSteam and Fire Regulator,

For controlugg the Braft or Blast by openng the Chin
ney or Valve in the Blast Pipo by the pressure of th steam in the boiler. It will regulate the pressure to
pound, ou the square inch. It caswor get out of orde pound, ou the square meh. It caswor got ont of orne
nond any persun can put one up in an bour after the dau

Ingersoils Patent Drill Press, With whiclh driling ebu be done the samne ns wilh can be done lour times as fist. The hande cat be wo
Felt for Steam Boilers, Pipes, Etc...
Steam Engines, Boilers, Pipes, Hydraulic 1 'resscs, Sbafting, Pulley's, Etc-, at the low
narket rates.

Anti Incrustation Pawder,
 ry to be irmh. In use for the past EIGHT ye
Refer to-Sugar Retinory, San Francisco,
L. A. Booth, Esq. ${ }^{\text {. }}$ Virgivia City
E. T. St'Een Agent.

No. 33 Fremont Street, Sau Francisen
MIMVING \& SCIENTIFIC PRESS THE ONLY MINING, MECHANICL, AN: CIF PAPERE
CONTINENT.

THIRD YEAR: VOLUME NI-NEW SERIE
A uew polume of this extensively circulated pap commenced sent. 11,1862 . It is intended' that uve Mining, Scientific, Mechadical and Industrial pursu together with several original engravinge, of new
tions, otc., prepured exprossly for its columus.
with the interests of Science, apte Ariculture and merce, aud any generud information that may be of terest to the reader: and it is the intention of the prictor to spare no pains or expanse in making it published

The Mining Interest?
Will find it of great vaiur, as it will contuin all !
 Purfinse, and un
vicoto tho $M$

The Inventor I
Will find it an exicetlent incdum for the purpose bringing his inventiou into notice, of ascertaiming
progress of invention in this and other countries, also of receiving any information that may be dec
sary in olthining hin patent, the proprictors having ary in olbuining his fatent, the proprictors having
great exporience as Patent Agenta, togetber will fuc great exporsing on that enablo them to olvain Rote with diwpatch.
Ihe Mechanic and Manufacturer Will bo grenty boucfited by its [prueal, as its
umus will from time to time contan original engr umbs will trom time to time contasa thecther with large amount of reading matter appertaining there
Wo aro constantle recciving the hest scicutific jot nals from all quarters, from which we shall contim to extract whatever may be of bencfit or intercest To Chemists, Architects and Millwrights This journal will bo invaluable. All now discover mation of great sorvice to Architeets and Millwrig Will be foudd in our columns. The Farmers and agricultural implements, and the farming interest $g$
Terma.
To mail subscribers :-Four Hoilars per annam $\begin{aligned} & \text { Terma Rates. }\end{aligned}$
Five Copies for Six Montes $\$ 8$.
Ten Copies for Six Months, \$16.
Ten Conies for Twelve Months, $\$ 30$.
Fifteen Copies for Twe Ive Months, $\$ 44$.
Twenty Copies for Twelve Months, $\$ 56$.
For all clubs of Twenty and over, the yearly subse ent times and froin different fost-ofices-. Specin copies will be sent gratis to any part of the comntry,

Room 27, (fnruerly) U. \& Conrt Building, Corner
Washington and Batery straeta, San Franciss


No. 1y, Virse Strect, San Francisco,
Iruish Castiugs aud Machinery of all kinds also: pabiane, hanscomb \& co.

## To Quartz Miners.

K.nox's Iuproved

AMALGAMATINGPAN, ALMER'S PATENT SIEAM CIIDST. Fhe above, combinatiun sfcures the most





The public are informed that Lerters Patent lave heen



T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street. piur silver aining stock,
GOULD \& CURRY MINLNG STOCK,
chollar mining stuck,
california steab nabigation cos sfock, BOUGH'T \& SOLD.

## DEETKEN'S

hemical and Metallurgical Works, On San Bruno Road, Islais Creek, SA. Frbavcincu.
ond bearing sutiphurets worked at reas-


 Hil owners. No power nor clean water required for
nuvs.3m

## LEWIS COFFEX AND RISDON:

 TEAM BOILER AND SHEET IRON Tho only exclusively Builer Making Estallishment one Pucifice Conat Uwned and conducted by $\psi$ ractical
 quulity.
ld Stand, corner Bush and Market Streets.


CHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
$\mathrm{V}^{1}$
 amp
 No. is Sansome atreet, conner Market, 7. 3 mm ) Ssa Francesco.

## 1. W. FISHBOURNE,

PRACTICAL LITLOGRAPHER,
ENGRAVER ANH PIRNTER,


 MINING


MARTIN \& Co., OFHICE...2at Montgomery strect, Up stairs, will contract for the
Purchase of Gopper Ores,
Assaying 8 por cent and unwards of Conpuer to the Ton Wr. will make ADVANCFA nkun Ores of COPIER, TM

Hexry Martin,
New Yark. J. F. Greenman, $\begin{gathered}\text { Sul Fraheisen. }\end{gathered}$
S.un Frumeisco Poat Onic ?, Bux 1259.
$j \in 1$.

> Tremont House, [A fow duors frum Montgomery,] sas Francisco, Ga
TBIN FINE, FIRE.PROOF RCILDING OFFERS MANY only half a block frum the l'ont Ollice and Custom Huase
 Amusemsut.
The City Railroad Cars pass the Door.
The Houso is conducted ou Temporance Priuciples,
which secures to our auests quiet.
The picers fur bard nud Romms are rery moderate-
by the day, meal or week. WE solicir A CALL Flom Ale.
F. E. WEYGANT, Proprietor.

For the accommodatiou of my many guests I bavo ta-

 or Internatiunay Hotel Couch aud be tukol to either House
with their bin
F. E. WE YGANT.

> LEANDER RANSOM
> Civil Engineer AND

## SURVEYOR,

Having been connected with the public works of tho State of Ohio fur 20 years, and the publ
surveys of the State of Catiforuia for 7 years.

## ALSO

state locating agent.
Aud as such baving the bato of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and the balanco on a credit of several years.
ofFicE : second floor of Express Building, N. E.corner of Montgomery and California streets. oc7.3m

Pacific IIail Steamship Company.
NOTICE
Arrangenimete have been mades Gold, Silver and Copper Ores
can be furwarded under through Bills of Lading from
San Francisco to England, at reasounble rates. For fur-
and ther particulars apply to a $\underset{\text { 28-tt }}{\text { cornor Sacramento aud LeidsdorfI street }}$

International EIotel, Jacksun Sthet, .....- - Sin Fruserst: FIRE-1RUUF BRLCK BULLUNG. Hont convement on the
OPEN ALL NIGIT Das City Iailruad Cars I'ass the Door. REDUCTION IN PRIUES.

Fiue Bathing Jeoma uttacturd to the Barbor Shop. Warin aud Cold showor Batlas Free ta Giuests.
Thorolghly renoviten and newiy fur




Best Furnisted Family Rooss;
 I am determined that the inthasarinsal shail be the
 aim temerda a comtinuance of he popllar faver it ha1rinciples. F. E. WEXGANT, Propriator.

> John R. Sims,


Oregon street, between Washington and Davis a
and Jackion streets, Say Francsaco.
Manducturers of Eire Proof Doors and IIks. All arders frum the iutorior Oregon, Washy Rent Turritory, Vavonuver's Fnland, British Culumbin, or any place mu the Pacific coast, atteaded to with promptaes
ayw

Mr. Sims Appreciates the Past liberal patronage of his friends, and trusts that he ma
ontioue to meritio tis futur
For the Informition of Strangerg he would cay that he feals confulent that his exper once in his particular calling is surpassed by nose on
this conast, which bis superior work, sent to almost his coast, which bis superior work, sent to almost eve
ry town in this stato, Oreguu, also Victoria and the Sand ry town uthis etate, Oregux, also Vietoria and the Sand
wiels Islands, and to bo seeu on some of the best build iugs in san Fruncisco, fully attast. A large asbortmen of secoud haud shutters for sale at low rates. api3

## NATHANIEL GRAY,

General Furnishing Undertaker, est sacramento st., Cor, of Wellb,

FULTON FOUNDRY \& IRON WORKS HINCKEET \& CO.,
samuvadttrorers of

Steam Engines, Quartz, Flour and Saw Milis; Cast Iro Fronts, for Buledings, Mining Pomps, and all kinds of Machinery, Efen, FIRS'T STREET,
Between Market and Mishon.............San Franctico.
*** All kiuds of Iron and Brass Cabtings furaibhed ** All kiuds of Iron and Brasg Cabtings furnished cast. Repairing of Machiucry ueaty done.
PAtTran MAkNe in all its various forms. Prices tow. D. B. Einckley. Ww. E. Wortir. Wm. A. Figh.

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders

## Cor. First \& Narket sts, San Francisco

B ABET METAL CASTINGS, FIRE RNGINES, FORCE

 POALS, Irous steam pipe furnished with fitidgs, sc.
COUPLING JOINTS of ALL sIz\&s. Marufacturers of "Gar ratt's Patent Improved Jourual Metal.'

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agriculitral state fair

## FOR 1862.

also; first phenium
At the San Francisco Bay District Agricultural Fair, 1802
Manopactory, wholzsali aid retail,
No. 44 Lexidstorfi street,
Opposite the What Cheer House, San Franclsco.

## To Mine Owners.

Parties having a Good sllver min Michanery to work it for als sutcrest fo the Bine Whllitu woll to suply at this office. No orgauleed comat
phay ued hpply.

## 50 lbs marine and

Fire-Proof Paint,

## M



 cletajuer thas any otiser patine.
DIRECTIONS:

For Decks of ships, use two parss Mineral Paint, one
pist White Letul, hixwith Liusurat dil. fur hothman of Veencles, use one part ground sufphur throes parta Aloceral thabi, mix with Coal Tar and upply or fur sale by allislap Clasublera and Tradesmen, in boxos R5 POUNDS FERE-PROOF PATNT.
Wheu ured on Ronfs, Buildinge, or Fences, it is equal to coveriog them with a coat of stoue, belog perfoctly
Firo Proof, and consting leas chan any paint.

## DRRECTIONS:

HOUSE:-Mix three parts Minerul Paint with one par white lead, thiu with limused oll: if a lighter color is wauted, mix lese paint, more lend.
Ku(u):-Five parte of biveral Paint, one part whit RUOF:-rive parte of Bliveral Paint, one part whit
Lead; mix with Liusted oil. Put it Lick on a tin Roo nead; mix with Linsted oil. Put it tick on a tin Roe
as one coat when properly appliedwill last chree years
G. T. Fouque, Superiutendent.

WURKS, North Beach; Office, 509 Sace ramento st., Sun Francisco.

## WRIGHT'S PICKS.

## J

self in San tiramer for description of 1 ICKS, of the best meterial, at roduced prices. Pick Eyes of the best irou furnished in any quan lity, at luw rates Orders from the country promplly attended to. N. B.-None genuiue unless staraped with my namo. JOHN WRigHT, 511 Market strect,

Opposite Battery, San Francisco.

## REMOVAL.

## O FFICE OF THE PACIFIC METAL-

 Having eularged our Works at North Beach, we are nuw cubbled to reduce from 10 to 16 tons of Silver or Gud rock per diy.Gold and Silver
versmichs' sweepings and Sulphuret Assaycrs', or Sil CUPPER OBEE-Highest market rates advanced in eash, for shipmenta. S. C. BRADSHAW, Agent,

## WANTED,

GOLD Quartz suitarleffor CUTTING JEWELRY,

By frontier a. devierny,
487 Pino streot, San Francisco.
13 ap
FREDERICK MANSELL,
mechanical \& architectural DRAUGHTSMAN,
No. 422 California street, corver of Leidsioorf.
Drawiaga of MoDELS made for parties applying for pa-
en ts at Washiugtou or Londou.

## HAYNES \& LAWTON,

maporters and mealers in
CROCKERY, GLASS WARE,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery,

C LOCKS,
Silver Plated and Britania Ware,
ETC., ETC., ETC.
NO. 516 SANSOME STREET,
[CORNGR OF MERCIANT,]
San I rancisco.

## HI. C. KIBBE, minivg secretary,

 Commissioner for Nevada Territory, 542 simoramonto at., cor. Montgomery (ARMORY HATILe.)MYERS \& DAGGETT'S
IIning and Stock Exchange, v. $23 夕_{1}^{\prime}$ B street, Virgina city, ‥T. Mining Slocks of All Kinds Boughe © Sold.
 *** Abstracts of Titles Furdi-hed. Fte.
AGENCY
For the Purchase and Sale of

## mexican mining stocis

At No, 411 Clay Street, Sau Frabcisco OFICE OF THE PENA AND LA MARRONENA SIL-
rer Muing Companics, Sal Ahtouio District, Lower Califoraia.
All persons All persons are incited to call and examine Ores from
the abwe mines. the above mives. WM. FACIKNER.

SOUTH PARK
Quartz Mill and Reduction Works,
COLD AND SLIVER ORES WORKED AT REASONCo able rates, and Working Assays mate of smal
lots. All kinds of ores crushed at shert notice.
J. H. sulin a CO, Office in Seield's Block, opposite J. H, SMonic Temple.


## San Francisco Maohine

IRON WORKS!
Northeast conver Fremont and अissioa Streete.

A
A ${ }^{\text {LI }}$ misns of Machiver mane to order ox
 mills, saw billx, mining Pumps, Hoisting inachines for ete, etc. and Casinge of sli descriptions made to order. Slean Eagies exchauged sud for sale by DERE CO . REPAIRING promptly attended to.

FOR SAIE.
One Tpright Post Drill, Potnand's manufacture, Al so one thirty inch serew thuck.
sisu Frapcisco, July, 1853.
je13
WILLIAM BRODIE \& CO.,

## CALIFORNIA FOUNDRY,


Light and Heavy Castings,
 namental.

## D. MORRIS,

 MACHINE SHOP,227 Market, corner of Beale Street. Manufacturer of
WARRANTED FIRE-PROOE SAFES yill Work, of alI ktads masde to order. All kinds of Repairing done nt moder

## EXCELSIOR IRON WORKS

713 Sansome street,
wen Sackson and Pacitic, Sso Frapeisco.
GALLAGHER \& KENNEY, Manufacturers of all kinds of
Architectural and Ornamental Iron Work
 cony, Ares aud Cemezery Rnillins, Gates, Stairs, bing done with promptness, and at
Ressonable Prices.
Ordens trom the coenary prompty $\begin{aligned} & \text { Ritended to. }\end{aligned}$ je13
To Mining Companies.
FOR SALE-A ETEAM ENGNE, AND BOIERR THE inch stroke-solht imp cranuce, with heater, pumps, ete. sth complete The boiler has 5 fues, is 24 fuer penetc. 40 inches in diameter, made up from the hest three-eighth
 guarauteod. Apply ro I. H HAM, No. 211 Clay st.

APARTMENTS.
F Ravishen AparmikTNS, WITH, or MTrHorc Fhard, at 1018 Powrell sitct, bcturent clay aud home trill do well to arply.

## E. C. DAKE, De.tler in

CLOTHING, Gentlemen's Furnishing Goods; HATS, CAPS, ETC.
At tae New York Clothing Stork, $541 \& 5 \$ 3$ Washingion ato. Montg'my Blw Old Sio. 145.
E. T. PEASE, R.S.CORNING, SAM'LC. BUWLEY

PEASE, BOWLEY \& CO
Real Estate, Stock and Exchange
BROKERS,
681 Montgoncry strect, san Francisco.
Legali Tender Notra and Mining Stocis, BOLGHT \& SOLD.

## P U M P S !

HARRISON'S
California Lift and Force Pump, mothout valies or packigg, Suitalife for Mines. Fire Englues, Wrecking or Irrizat ing. This is use checapest, Lightest aud woyt Durable rented

ALT, SYZES;
Capable of throwiug finm UNE HTXDRED ro FITE THOTSAND Galluas per Mitute-For sale by

> C. H. Harrison, Phœent OLI Wores,
jo-15 517 Front Street, Sw Francisco,

## cring <br> DR. H. AUSTIN, DENTIST,

No. 634 Washington street, Between Montgomory aun Kcarny, (over San Francisco I hare recenty rearived from London a New aud Etsutirul fulcanite (India Rubber) for Articicial Teetrh
which is far uprerior to uyy uther ever used. T1stight

 permunent selw. All operations thoroughly perioriwed,
je-20
and at reasonablo prices.

## L. F. LELAND, STOCK BROKER,

 No. 621 Clay street,Ofice Hours, 10 Lo 11, A. M.; $2 \frac{2 / 2}{2}$ to $3 / \frac{2}{2}, \mathrm{P}, \mathrm{M}$. Member of the San Fraucisen Stock and Exchange Boar

## New Bedford Copper Company.

THE CANERSTGNED HATNG BEEN APPONTED Algents for the abore Company, are receiving reg

Sheathing Copprr;
Brazier's Copper;
Copprr Bolts
Yellof Syeathing Mrtal;
Yellot Sheathing Mrtal;
Copper and Conposition Nails;
Which they offer to the Trale at the lowest marke rate, aud un the most favorahle torms, Mow je-20

IOS Front Steei, San Franciseo.

Napoleon Copper Mining Company

| Capital stock.. .81,6:0,000 <br> 2,700 Shares- $\$ 600$ Per Shaxe. <br> Lengh of Lead $\mathbf{2 , 7 0 0}$ Feet : Location of Mine, Gop Mistict, Culaveras cmunty; Incorporated October $\mathrm{S}, 186=$. <br> President $\qquad$ F. Macereli <br> Secretary. <br> Tre isiler .................................... RRO <br> Superiutendant......................achakd FOW. <br> Trtstees. <br> F. Marchei usish, or Alta califernia <br> M. FR1.ENBACH, w Grvenbery Erienbach \& Co. <br> A. J. Mect.inek. or A. J. Minhter \& Co <br> R. G. BRowX, of Griver \& Baker S. M. Co, <br> J. c. nitian of human \& 6 . <br> R. C. ALLEX. it. © Cmmissary Department, <br> J. IT. TLCKFR, of 3 . Tr. Tucker \& Co. <br>  <br> S. E. HollyMBE, of Holenmbe Brothers. <br> IT. I. DLXCAN. Serretiry Caliornia Pioneers. <br> Ofiec of Clapany, No. $4 \times 20$ Moutgonery streel. |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

San Antonio Gold and Silver Mines,
FORWARDING \& IMINTNG AGENCY.
SAMUEL SMITH,
OFFICE-Xorth Wrist Corryer or Front and Clay
Miniwg machmeri and herchandise for - warsed, Mhnug Clames securnd, thre wh tur mibsluu.

## PEOPLE'S

Steamship Isine! Connecting California and New York 250 Miles Shon ter than any other Route: The Fast and Eavorite Dauble Engive Stcamahip,
MOSES TAYLOR, J. H. Blethen..
...... Commander Will be ni-putelued for
SAN JUAN DEL SUR,
From Mission street Wharf,
THURSDAT, . . . . - JULT $33,1803$.
Punctually at $90^{\prime} \mathrm{cteck}, A$. M., on
Counecting as GREYTOWN with the Epleudid Stesmship

## America

Reduced rales or Passage and quick trips are secured
Reduced rates of Passage and puick trips
by the re opening of the Nicaragua Route. These seemers are uncurpusserd in spered. cleanliness

comfort of passedyrys
for further informatio
Ion apply to

1. K. RORER

## FOR SALE.

Patent presemb resela iron minng pans,
Russia Iron Quariz Screcos for Mrils;
Portalise Forges; Cauldrou Kett
Punps, both Frame and Lint
Lend Pipe; Rubler Hose ;
Troukht Irou Pipe :

Coaking stores nud llea ing stoves;
Tin Plite: Sbept Irni. Sheet Cupper ;
Froit Cans of Varinus Kinds:
Fruit Caus of Varinus kinds;
Inard sid Buter Cans of all siz
Iron Wire : Brass Wire
Iran Wire Brass Wire: Copprer Wire;
Copper Rivets and Burs ; Iroa Rivets ; Etc.
We are also manufactarers of the
UNEQUALLED
MONITOR COOKING STOVE
OR RARGE,
For Hotels.
To which we call particular attention
je-29
TAY, BROOKS \& BACKUS

## The Pacific Mineral Compnay

$\mathrm{M}_{\mathrm{CoP}}^{\mathrm{M}}$
Copper, Silver, Tin, Nickel, Cobalt, Zinc
Lead, and Sulphurets containing Gold. Due account taken of all valuable metals combined With Sitrer and Copper Ores, aud advances made there$\underset{\substack{\text { Witb } \\ \text { for } \\ \text { P } \\ \text { Pr }}}{ }$
Parties onvning underelhped minus aud desiring canitad
to pruenect the same will receive nssiotnnco if to prospect the same will receive assistrnce, if, upou ex-
aminatiou, sneh teads are deemed suffciet tly valuable to justify such expeaditure.

OFFICE, No. 1, odn feilows' had,
jel-lf Mice, No ifortgonery Street, SLA Francisco.

ASSAYS!
Promptness and Accuraey Secured By the Use of the Most Improved Methods of
A N A LYSIS!
Advantageous 'Terms for Prospector's Clubs and Mining Companies

## J. H. CHURCHILL, M. A, <br> (FROM ELROPF,

A. C. MORSE, Mining and Rcal Estate Agent, Ornck-s. W. corner Pine and Silver sts., Aurora, HA vihng mane arienngemments
 and ki.h. fret
ratud Distriet

Miners' Foundry

## MACHINE WORKS, <br> First St., between Howarid \&olsom, san francticu.



Stesm Fugives and Bnilers, Fhwep, Saw and Quartz mill macliuery, Biniug Pumps, Amaigamators, Retorls,
E.te.,
Eite.
Particular atteution will be given to the nunuufacture of Machinery in sections, designed for places at difficolf

pition.
$\neq *$
$*$ larties desiring in test their ores practically, in smatll quautities will be afforded ample fucilities, free of
cost.
All parties desirug accurate nnd highly finjshed draw. are cordially invited to cull beffre contracting elsomhere hotriain, ANGEI \& IJNG

New Patent Agency.

We riave connected with the The Patent Agency Business,
And would invite Incentors and misenrerers on the Pa
 ton, which, tagether with our own expericnce of severa years, rebders the

Mining and Scientifie Press Ageney The met immirable place to mink rpplication for lettert Patent on the Pacific onast. Amply at
Offere of the "Mining and Ecientific Press," Romm No. 27. Ferieral Building, corner of Battery and Wash ineton efreets, (firectly opposite the Poot office.) san
Francisco.
EWER \& SMITH.

FOREIGN PATENTS OB'TAINED
By application at this office. Ronm 27. Fereral Ruilding.
EWER \& SMTH, Solicitors.

NOTICE TO INVENTORS.
nrenfors wichine to file Chrents should apply at this nftee, Room No. 27, Federal Building. Torms mnily.
EWER \& SMTE.

PATENT RIGHTS.
Patent Fights Bought תnd Sold, At the office of the "Sliaing aud Scimplifin Proms" Ageney
EWER \& SMITH.

IMPORT'ANT TO INVंENTORS.
Inventors who nitain their Patento through this Offee can hare that Inventions illustrated and hegerthen in
the colnmis of this paper Frar of charen, they merely girnishing the engravings. We arealen prepared to furnich encravines at reasonahle rates. Thnee whu do not care to gato threnxpense of having engrnvinge proliared ean have their inrentions filly noticed and deceribed in
 puhlic will be found a most important sirantree in isrentors. EWER \& SMITH.


## ESMERALDA

A most infortunate concurrence of circumstances seems to have operated, within a lew months pust, to greatly deprecia'e Vismeralda $s$ tucks, ami to destroy, to a great exient the confidence of capitalists in this city in the value of the mines of that region. 'Jhis depreciation, we hire good cause for believing. has not heen so nueh frum a failure of the yield of the mines, as from the had management of several of the leading (lompanes. . There are not a few who openly impute improper motives, to some of the man agers here spoken of. It would be difieult to convinco harge portion of the Stocklolders of the Wide West mine, that that mine might not under a proper management, have been made a dividend paying institution months ago, with its stock rating full one hundred per cent. or more, above Fits present market valne. Of the facts in the case we know but little; we sinply give the most current and commonly received impressions in Esmeralda, in justification of the ctaim set up for a fair average valua ion of the nines of that regiou. In addition to the above supposed cause for re-ac tion, much damage has unquestionably been done to good in terests in that r.gion by wild cal speculators, who have malmed off upon unsuspecting buyers in this city, thousands ff feet of ground, utterly worthless, and which in many cases never had any other foundation than the paper upon which they were represented.
Another important reason for distrust in the mines of Eismeralda has undoubtedly resulted in the following just 'cause for complaint" which we clip from a late number of the lismeralda Stan:
Thousands of ounces of bullion of gold and silver are Continually leaving our town. for which wo get no credit whatever. It is all credited to Washoe, simply because in prossing the Sierma Novada it is sent by the Placerville onte. We hope the Sonora road will soon be opened, and then Esmeralda and Bodie Districts will get the ciredit due hem. It is from this fact, more than anything else, that hur people have been averse to being thrown into the 'J'eritory.
The evidences appear to be conclusive that the Esmeralda region contains many rich and valuable mines, and it is a good cause of complaint that the bullion shipments from thence should be placed to the credit of other localities. The numprous will defined ledges, in that lucality, the large ;amount of work done on them, and the amount of bullion known to have been taken out of them give unmistakable avidence of their value. It is idle to talk about failure in a region where such claims as the Wide Weat, Antelope, Del Monte, Utah, Garibaldi, Ramboo, Ural, Crockett, Silver Hill and numerous other good and perhaps better claims are to be found.

Good will undoubtedly result from the present re-action fin Esmeralda Stocks. The time has goue by when a few Hoose boulders can be made the basis of a mining operation, ind wild-cat speculations can no longer carry iuto market heir spurious stocks upon the prestige of such well known alaims as those above enumerated. Already we notice a disposition in that region to fall back upon exclusively legitinate operations-to so develop the mines as to get good priees for their feet, instead of running to this city to dispose o
good feet for any price, by virtue of lard blowing. We lave much faith in the concluding paragraph of a private letter before us, from a friend in Fismera!da, who writes:"Give us good mills and honest men to work them, and we will show y
the shade.

## THE CULORADO GOLD REGION.

Considerable activity is now being manifested in working and developing the Gold Mines of Culorado Territory. The Miners' Register, of a late date, published at Central City. in that Territory, gives the following interesting items :-
"Yimid of thrae Quartz Mads-Messru. Lee, Judd \& Lee cleaned up from their Black Hawk, Eagle and T'ger mills, during the week ending May 2nd, \$4,582. During the week ending May 9 th, $\$ 5,434$, making a tatal of $\$ 10,216$. We doubt whether any of our eastern capitalists can boas of a greater income than this. It is at the rate of $\$ 265.626$ per aunum. We know of no reason why they should not do as well in the future as they have hitherto. Such are the results obtained from small beginaings in this land of gold Solid Gold.-J. Q A. Rollins showed us yesterday 2 specimen of solid gold, taken from Gold Dirt Lode in '60 which weighed over (90) dollars. This is the largest natural piece twe have ever heard of as having been taken from a lode in this 'lerritory. This lude furuished several of a smaller size soon atter its first discovery.
Beautiful Specmens.-We saw a few days ago, at Horon, Pratt \& Co.'s, a very fine gold specimen, from the Perrin Lode, tuken out at the depth of about twenty feet. It was a piece of thoroughly burned quartz celored with oxyde of iron. Wire gold could be seen all through it. We have long known the lodes of Russell's Gulch to be rich, and this is another proof of it. We were also shown another spec men from the Patch by Hon. H. F. Parker, containing several dollars in solid mass. It was contained in seam of quartz passing through a block of granite. But few finer specimens have ever been found in the country.
Gaylord's Purciase on tre Gregory Lode.-There haye been some important changes in the ownership of property lately. Among them we may name the purchase of the Parker Mill property by W. E. Gaylord, of. Washington, D C. This mill is conveniently situated in Nevada Gulch, ane has an abuidant supply of water. Its number of stamps is to be increased to twenty.four. The mill is to be refithed and put into complete runuing urder. Mr. Gasloyd also purchased a number of valuable mining clanos; among which we may specify some eight bundred feet on the Ne vada Lode, which rus within sixty feet of the mill and cap consequently be worked-so far as elevaíing quartz and wa ter goes-hy the mill engine. This lode promises very well It was first discovered by mining the gulch which runs along its course for several hundyed feet, and was in this way uncovered for a long distance. The sulphurets erop out so far as it has been traced. Mr. Gaylord has also pur cluased a valuable tunnel claim, which enters the mountain at the mill. The tunnel erodses all of the most valuable lodes on Quartz Hill, and if properly pushed will be a fine

## MINERAL WEALTH OF SOUTHERN CALIFORNIA.

Until very recently but little attention has been paid to the dev. lopment of the mineral resources of Southern Californin. Grerations have hitherto been confued to mere surface explorations. Scarcely a shat has been sunk beyond twenty-fiv. or forty feet deep, or a tunnel run any greater distance into a hill or ledge. Even these superficial explorations luve beell I nited, and confned to but a very small number of even thase veins whose existence has been observed. Still, the specinens obta nitd compare favorably with those from any other locality, either in the State or adjoining territories. An accumulation of such specimens would form a collection, which, for variety and richness, would compare favorally "ith almost any cabinet in the world. Guld and silver bearing quar' $z$, copper ore in all ita varieties, cinnabar. tin and other ores liare been found in this regrion, in great profusion, aud the country only needs a few more thorough and go-ahead miners, with a reasonable amount of capital to develop as rich a mineral country as can be found on the globe. We would inclurle in that region of which we are speaking the Owen's River and Coso country, Slate Range, 'tehachape, Soledad, Holcomb, Valley, Mohave, the region about San Bernardin , and the mountain range back of, and to the South.warl of Los Angeles, in which are located the Temescal tin mines,
Well authenticated reports from this region, "rom highly intelligent and practical -ources, unite in plaring the high' est pstimate upon its mineral value. The scope "pf country included within the limits above described is not less than 500 miles in circuit, aud a richer feld for exploration can scarcely be found.
The letters which we are publishing fron 'Mesquit Spring,' one of which will be found in the present issue, are descriptive of the North-western See'ron of this region. The min' eral developments of that locality are of the first order, as will soon be proven by ores which are now on their way to this cily. in lagge quantities, for treatment here. Our 'correspondent there, will doubtless keep our readers posted in regard to , be developments in his neighb rhood. We have for some time been intending to prepure a series of papers duscrintive of the Owen's River and Coso Cumtry, comprising the North-eastern sections of this region, for which wep have already an abumdance of data. (Our correspondent theve will please excuse us for the delay. We have not forgotten the mutual promise.)
I he attention of capitalists is alroady being directed to this portion of our Staide, und we understand but littre difficulty is found in making arrungements between capitalists and miners, whereby an abondanee of means is being secared, by the latter, for partial interesta in their mines, to propenly. open and develop them, with the nltimate erection of machinery: Miners in that region should lose no time in reducing their raims to shures. It is by such means only, as a gereral thing, that moneyed men can be indured to take hold of them, and their real value be propenly developed.
Is many parts of Penssylvania the people are growing an exceljeat substitute for tea.

## MINING CORRESPONDENCE.

Notes of a Trif to Siate Ravge vic Los Angejos and El Paso.-No. 6.
supplies for a prospecting party of thrbe.
Two No. 1, 3-10 pule picks, 1 drifting pick, 1 short and 1 long handl. d, r. und-poin ted shovel, 4 to 6 steel gads, 18 - 1 b cast steel sledge, 1 good hatchet, 1 goud born-spoon, 1 or 2 leather specimen-bags, 3 -quart, blanket coveled, iron canteens, wide straps over the shoulder; revolvers aud a double barrel shot gun, with plenty of powder, caps and course powper for rabbits, 1 -quart iron camp kettle, 1 4-quart do., lined with tin or a stew pan lined with porcelain or tin, to stew fruit in, 11-gallon iron coffee pot, riveted in every portion, with corer and strong buil, no nose except a little bend in the rim, 1 bake kettle, 1 frying pan, 1 large, tin, bread pan, 4 tin plates, 4 tin cups, spoons, knives and forks, 1 large iron spoon, 1 iron ladle, 4 tiu, soup, quart tins with handles; some wire to make pot-hooks; good grub for three months -100 Ibs . bacon and bam, No. $1 ; 200 \mathrm{tbs}$. flour, 100 tos. beans, 25 tbs. rice, 25 tbs. dried apples, 25 tbs. peaches, 100 N .0 . sugar, 2 doz., P. \& M's yeast porvders, 25 Ibs . green coffee, 5 Hts. tea, a box coffee mill, or the coffee can be tied in a bag and be beaten quite fine, between stones, 1 Hb . of pepper, 20 Hbs , salt.
I would also recommend that the prospector take along small quanties of lard, ginger, allspice, cinnamon, nutmegs, pickles, catsup, and also a gallon of vinegar, also a keg of sprup. But these are all luxuries which can be easily dispensed with.

In the line of clothing, one pair heavy blankets and one pair of light for each person; a few articles of stout miscellaneous clothing, 2 prs. of heavy boots, well naiced, alsu two papers of tacks.

My daily wear is an old soft hot, with ventilators all around it, a hickory shirt, a pair of denim overalls and a pair of wooden soled brogans, with rawhide well nailed on the bottom; after sundown I put on a blue flanuel overshirt. This is all the clothing I shall need till November, then I will probably want an undershirt and a pair of drawers, or a pair of cashimere pauts, with an old coat to put on occasionally.
A teat is a great convenience. Ours is of the U. S. A. pattern, $7 \frac{1}{2}$ by 10 , (cost $\$ 10$,) plenty of room for four to sleep in.
I would add to the above, a fnll set of apparatus and chemicals for the reduction of ores.
I have, probably, been somewhat liberal in my calculations for supplies, but at this distance from civilization, it will be well to be amply provided against contingencies.
I will conclude this letter by giving a few incidents, such as are daily occuring here, and which will give your readers a better idea of the country, than could be obtained from three times the same space devoted to descriptions

## incionets.

I will mention some circumstances which often occur on on this road: Last week a man from San Bernardino via Los Angeles, came on to the Desert Springs, with a riding horse and a mule packed with grub and tools. He turned them out at night, as usual, and in the morning they were mis sing. He soon found their trail leadiug directly across the Great Mohave Nesert towards San Bernardino. He procured a horse and started after them. The horse gave out after going fivemiles; he tied him to a bush and then started on the run, barefoot, on the burning sands. He ran about 3 - miles, and then erawled back almost entirely exhausted. He had no food or water with him and had he continued on an hour longer he never would have got back. His animals probably perished, for it is supposed to be impossible to cross the Desert without carrying food and water for animals.

A Mr. Wall, from stockton, came in last week from Slate Range. He had wandered from the trail, on a very fine riding mule and became nearly exhausted ; was without food or water 24 haprs. His mule's hoof split in consequence of a break in the shoe and could only walk by bindng g the riatta around the foot and as soon as it wore off pind again. He laid down to rest two or three times and soon was asleep, when his mule toak him by the shoulder and raised him to his feet. He has been told that had he slept long he would have awakened with a heavy fever
on him, been derauged and lost. He had to leave his mule 20 miles back on the road aud come in to my tent. Alout three weeks since an ox-temster stopping at Desert Springs, went out to collect his cattle and found two missing; he rode over the halls and found two ludians and a white man driving the two before them. He gave chase, though le had no arms with him, and they fled. He drove his cattle back and sent a man to tho Company of Soldiers, then stopping at Grape Vine Springs, ti ied to get them to go out and take the party, as they had plenty of horses, but the soldiers would notstart a foot. T'wo wecks since my partner wishing to come here from Slate Range, started in the afternoon, expecting to travel all night, as all try to do in crossing the dry alkali and salt fakes between this place and that. He traveled with a man who had a two-horse team und a light wagon. Towards morning they unhitched their horses to let them rest or browse, and laid down themselves. They soon concluded that the horses would travel off for water or food, and they turned out to hunt them in the dark. My partuer, half asleep, soon espied two horses moving towards Slate Range, and he ran around and came in ahead of them and yelled 'whoa!' "just as he voticed two $\mathrm{m} r \mathrm{n}$ on the horses, with their revolvers pointed at his head. They had noticed his movements and were rearly fur him, supposing him to be au Indian. The sound of his voice showed them that he was no Indian and he soon explained his object and mistake, and the travelers passed on.

A few days since five Indians came into camp at Laurel Hill, about starred. They were a portion of the party who went from Tehachapa to assist the Owen's River Indians in their late war with the whites. They cannot go to 'Iehachapa, where their squaws are, as the residents will kill every one of them, and they will wander about till some parties not so tender hearted as ours, will use them for rifle targets.

Night before last Mr. Griff Williams was Jying in J. A. Talbott's cabin, reading a paper, and feeling something crawling on his whiskers caught it and squeezing it he felt a sharp pain. On opening his hand out fell a large light green scorpion, which had stung him on the fore finger. He immediately applied wet tobacen. The whole hand swelled some and pained him for three hours, then ceased and in the moruing he could find nothing but a little black spot, where the sting entered.' This goes to show that they are not dangerous. Perhaps at a later part of the sea:on, they ma
be more poisonous.
Mesqutt Springs, June 15, 1863.

## A CAIIFORNLA INVENTION.

The Stockton Independent speaks of a new "Harvester," a Colifornia invention, in successful operation on a ranch about two miles from the Wat rloo House on the Calaveras. This machine is the invention of a Mr. Marvin, and with the labor of three men and 12 horses, is able to cut, thresh and sack the grain produced upon ten to twelve acres, per day. On the loth inst. its day's work resulted in the cutting, thresling and sacking 300 bushels of wheat. The machiue was built with more reference to durability than ornament, yet is neat and as light as the character and amount of work it is required to perform, will permit. Its cost was nearly $\$ 1,200$. The machine is said to work most admirably and has been endorsed by all practical farmers who have witnessed its operation, as the best in use.

## METALS.

The pr"ce of copper, at the present time, at the East, is 31 cents per pound.
Tin is selling at 42 cents. A jear and a half ago it was commanding but 28 cents in New York.
Lead is now worth 8 cents in New York. There has been an unsual demand for this metal, for the last year, for military purposes.
Zinc is worth 7 cents. About 3,000 tons of this metal are consumed in the United States, a little over one half of which is the product of domestic mines.
Iron of all kind is in great demand at the present time. The production of this metal at the East is being pushed with all possible vigor. Penusylvania pig is worth $\$ 30$ to $\$ 32$ in New York.
Cast steel, for mining purposes, in this State is very scarce aud held at 40 cents per pound. Of late, supplies have come to hand via Isthmus,, and move ordered. Steel of ordinary sizes quotable at 25 c . Nails have advanced to $\$ 450$.

- Some weeks since we forwarded ur subscribers as are in arwat blank receipts to stich of have promptly ane in arreurs for their subscriptions. Some have promptly answered by remittances of the amounts lue; others have notified as of sp cinl contracts with our predecessor, or of full payments made to him aud uot credited on our books. Where payments have thus been made, we have, in every instance, allowed them. 'I'here are quite a number, however, who have returned no reply to the bills which have been sent out. We trust all such will respond immediately upon seeing this notice. If payments have been made, we wish to be notified of the fact, so that due credit can be given; and if there are any to whom the paper is now seut who do not wish to continue it or do not intend to pay their subschiption, we hope they will notify us of the fact so that we may discontinue sending pupers to them. We do not wish to crowd the paper upon any man All the n.mes upon our list have been placed there, as subscribers, upon what we have deemed good authority If any party, not considering himself a subscriber and in arrears, has received a bill for subsc iption, he will confer a fivor by notifying us immediately of the fact. Postmasters are also reminded of their duty to return a paper that is not called for, etc.

Ir is stated that Gens. Grant and Pemberton were, some' ears ago, both lieu enants in the regular army, and belong. ing to the same regiment. They were stationed at De troit. We have also heard it stated that they married sisters The wife ot the latter, the telegraph has announced, was. killed, during the bombardment, by a bursting shell.

Scarciry of Water.-The water, from the melting snow is already beginning to dry up in many portions of the mines. The ildications are that the placer mining will be a very short one this year. The miners in quartz, however will be proportionally benefitted. What is death, or al least an important drawback to one, is life to the other,

Agid Manufactory in Nevada T'erritory.-Messrs McKeeloy, Ross \& Frazer, are about erecting an estalilisly ment in Carson City, N. T., for the manufacture of acids such as are used in the milis and assay offices of that I'or ritory. The works will be in operation in about one month from this time.
Bollina Meat.-It is the statement of Dr. Lankester who is the best anthority, that albumen is contained in al meat ; and if you put meat in cold water it gradually exudes but if you put it directly into boiling water, you produce. 1 covering of coagulated albumen around the meat, whicl. keeps in, to a considerable extent, the creatine and all th. precious products of the jaice of fle-h. The water shouli boil ; that is, it should have a temperature of $212^{\circ}$, and bi kept at that heat for ten or twelve minutes; then the heat may be reduced to $140^{\circ}$, and kept at this heat until th. whole is cooked.

Weg The valley of the Connecticat Biver will this sea son be appropriated ulmost exclusively to the culture of ty bacco. In 1860 over six millions of tbs. of tobaceo wer raised in the State, and this year the amount will probabl be doubled, which, with the price also doubled, will rende' profitable returns to the producers. Connecticut is th. tenth State in the Union in the amount of tobacco raisec

To prevent Kettues from Rusting.-Dr. Osborn sas that crusty deposits which gather on the inside of kettli used for boiling water may be prevented by placing a con mon clay marble in each kettle. The deposits having greater affinity for the marble than the sides of the kettl gather around the former and increase it, hue, while the la ter are left as bright and clear as when new.

The New Gold Field.-Accounts from Arizona are vel flattering about the recent discovery of gold placer digging on the Frio, a tributary of the Gila River. It is assertc that they equal the American River in 1848. Howerer th tray be, certain it is that good placers liave been discovere Mr. Frenberg, a gentleman of scientific ohservation, who h: mado that country it stady for years, predicted months at that the pext great gold-field would be Arizone. Still fu ther on than the previous discoveries, he says, richer di giogs still will be discovered. The facility of access and th tavorableness of the climate will place these diggings, if rich as reported, far aliead of the Northern mines:

LIST OF MINING COMPANIES HAVING OEFICESIN SAN FRANCISCO,
mumeni paying ming.


THE CALIFORNIA SMELTING WORES.
We are frequently enquired of with regard to the progress which the "California Sumelting Works "are making tuwarde the commencenent of active operations In repy to such numeruas enquares we would remark that the Company appear to be somewhat reticent upon the subject, but from conversation with several parties connected with that iustitution, we have learned che follosing facts, which, we presume, we can lay before our readers without any breach of coufidence.
The Company have erected one Reverberatory Furnace, capable of working about fifleen tons of ore a day. They do not intend to carry the metal through the refining processes, and complete the manufacture of copper. They will merely couvert the ore into "resulus," an operation which they will perform as folluws :-A givenquantity of the different ores are turned intu the furbace, the average of which must not assay over 10 or 12 per cent. The whule is well heated, and in the course of a few hours the furnace is tupped and the entire muss drawn off, in the condition of what is termed regulus, which will assay frum 40 to 60 per cent. of copper, the percentage dopending mainly upon the mixture of the ores from which it has beens obtained.

The Company, we presume, will nut commence operations until they lave accumulated a sujply of some 2,500 or 3,010 tons of ore at their works at Antiuch. They are huw purchasing ores at the rate of a out $\frac{1}{W}$ for each per cent. of copper the ore contaius. They pay for;

$$
\begin{aligned}
& 11 \text { per cent. ore } \$ 22 \text {. } \\
& 12
\end{aligned}
$$

As we understa $\cdot \mathrm{d}$ it, the Company pr fer to parchase a low, rather than a high grade of ores; which fuct, if it is a fact, will be particularly interesting to those miners whose ores rate, say from 10 to 15 per cent only. The simelting Company will pay all charces of transportation, on the receipt of the ores at their wharf, which anount will be deducted from the purchase price, on settlement. Any shipment will be assayed, and payed for within two weeks from the date of it: receipt. The Company have alrearly made considerable purchases in Calaveras, Nevada and Yuba counties. We have no koowledge of the time at which they will commence smelting operations. That time will be goverued entirely by the rapidity with which the ore comes in. It will not be profitable to commence smeltiny until about the quantity mentioned above has been received.

Ouf of Print.- We regret that we cannot furnish back numbers of the Mining and Scientire Press, containing the articles uader the head of "The Miners' Laboratury." without going back to the first of November last. The unexpected demand for these papers has already diawn upon our regular files. We have still left. however, a few complete files from November last, which will be disposed of at the regular subscription price-fuur dollars from Nuvember, 1862 , to November, 1863 . 'To those who are not able to obtain the back numbers of the "La oratory," we would say that we propose soum to reprint those papers, in a revised form. We have much other valuable matter in store for our readers, that are, and that are to come.
St. Ignaties College.-We have received a cony of the Annual Prospectus and Catalogne of St. Ignatius College, of this city. The college edifice is lucated on Market Sireet, between Fourth and Fifth. 'This literary institution was founded in October 1855, and, numbered at the close of the last term, according to the catalogue before us, 462 students. The design of the institution is to give a thorough Clasical, Mathematical and Philosophical oducation. It was incorporated A pril 1859, and is fully empowered to co firdegrees and academical honors in all the learned profession-: The faculty and officers comprise thirteen gentlemen, under the presidency of Rer, N. Congiato. The aext term comonences on the 24th of August prox mo.

For tae East.-'Two Ocean Steamers leave this port, on Thursday next, for the East. The fay rite steamer Moses T'aylor, under command of Capt. Blethen, takes her departure from Mission Street wharf, while the P. M. S. S. Co dispatch the finest boat of their lin', the Constitution, commanded by Capt. J. S. Waikins, at the same time, from the Company's wharf at the fuot of Folsom Street.. Fares will undúubtedly be low, and no duath is large number will ins prove this oppoutunity, to risit the " old folks at home."

## COPPER MINING CORRESPONDENCE.

Fitior Mining and Scientific Press:-Having recently made a trip through the Copper Regiuns of a portion of Nevada aud Yuba Cuunties, I have thought that I may be able to give you a few items that nay be of some value to your numerous readers, all of them, nearly, being either direc ly or indirectly interested in Copper Mining, which i. rapidly beconing one of the most widely extended departmeuts of Mining in he state.
At present there is scarcely a county in California but where indic:tions of copper are fuund. The copper ore, also, of each district, pussesses s me mark ed pecu iarity of of its own. There is a wide difference between the outward appearance of the Calaveras county copper and that of Yuba and Nevada. Most of the copper, in the former cunnty, is more or less mixed with slate ; but in the latter counties, with few exceptions, it is found mixed with quartz. From all nutward i dicatiuns. Nevada and Yuba promis - to turn out large quantities of fine ore.
The Wilson district, about seven miles from lincoln, is being vigororsly prospected by several parties, all of them, nearly, being furtunate enough to find the ont-crop; ings, and other accompranyments of copper lotes. Thus far, however, but little copper ore, of any value, has been taken out. They have one shaft here, sunk to about 75 feet ; but the copper ore is as ye of rather a low grade; but with proper car and uttention would be easily concentrated at the mines.

The miners at the Zinc House district. about 12 miles from Ijoculn, are also getting very flattering and encouraging prospects ; and this district, l have no doubt, will create quite a stir before long. amodg copper speculators Among the claims of this district, that of the Well Mining Company, is the best and m st promising. This Cumpany has a mats of ore, cheme thivy feel in witth, and upon this mass they have sunk a shaft to the depth of about 35 feat in one place, and another shaft, at a little distance from the first, is down to the depth of about 30 feet. The quality of the ore is inproving in percentage, every foot they go down.

There are several very good claims also, a few miles north of th Zive House district, on the Green and Downey leads ; among some of the best of which are the Liureka and Last Chance. Both of these claime are tarning out very fine ore indeed; and were it not that it is a little mixed with quartz, the percentage of copper wonld be very high. There are sereral other claims on these leads or clained to be on them, as I should have said, but they have not strack anything as yet, and I do not suppose it of any importance to give you a description of every hole the nuisers are sinking in expectatio 1 of finding copper, with as little chance of doing so as if they claimed 'relegraph Hill, and mined the satue for copper. In this district there are few other clanns which may turn out good such as the Alabama, Mammoth, Duffy, Wild Irish and Confidence.

A few miles south of the Zine Honse, is another copper district, called the Monitor. So far bat one grood claim has been found here, and that is called the Red Lead. Unlike the other claims, this cupper ore is mixed with slate, and not quartz. There is no m stake but that they lave a fine show here.

There is ove remark I wish to make on copper mining in California, which is, That at not a-single mine do they adop any method, whatever, of dressing their ore rud sep. arating it from the grongue: and with few exceptions, but little care is taken in the shaft, to blast the rock in such a manner as to properly save the ore. In several of the claims I visited, fifty per cent of the ore was lost, by bad workmanship, and forty per cent. by not dressing their ores.
It is a pity to see such a lare quantity of ore being entireIt is a pity to see such a larre quantity of ore being entire-
ly lost. In a number of places, dirt, stones and ore are all dumped together, while by following your instructions under the head of the "Miners' Laboratory." the whole could be separated with but little cost. Copper Mining will not pay unless the minfrs will adopt some plan to to save their ore Could you not, Mr. Coitos, give the miners a description of some cheap apparatns without much complicated machinery to spparate the gangue trom their ore?
T. Price.

San Fbanchsco Jtly 18te, 1863.

Corrmspondenge-Niceessity of Study and Exprriengr among Coppbr Miners.-In anoth r column will be found a letter from Mr. 'Thomas Price, descriptive of the progress of the Cupler Mining interest in a portion of Nevada and Yuba Counties, which that gentleman has recently visited Mr. P. is thoroughly posted with regard to Copper Mining in all its varicus phases, and his remarks are eminently worthy of rattention. We would call especial attention to the concluding portion of his letter, on the importance of the mauner of extracting the ore from the mines, and its proper man pulation and separation on thesurface. We have beard similar remarks made by other experienced copper miners, with regard to the wasteful manner of handling copper ore at the mines, by parties, in this state, who have had litile or no experience in suck matters.
Coppe- mining like all other branches of industry, in order to be made successful, must be conducted under experienced munagement. The lack of experience in this branch of our mining interest will doubtless prove a great draw-back to copper mining in Califurnia, for sume years to come That experience will be gained suoner or laterand all he soon $r$, in proportion, as uar miners take the trouble to embrace all the means at hand to inform themselves with regard to the nature and modus opercundi of their peculiar calling. Scientific bonlis are but of small account in accomplishing this end. What is wanted is proo ical information from practical men. That iuformation We are endeavoring to collect and spread before our readors. The letter we pulbish to-day and the article ander onr "Miners' Laboratory" of Ju:e 29 th, will be found especially important in this direction.
Otber articles will follow in due time, as we may be able to collect them from various sources. Probahly but few of our readers:re aware of the difficulties in the way on this Coast, or the time required for obtaining information of this class which may be realy valuable. A multiplicity of duties, always attendant upou the starting of a new enterprise of this kind, has thas far prevented us from hestowing that attention upon our editorial labors which is desirable, and, in fact absulutely necessary, to make our colomss usefol. The encouraging and incressing favor with which our efforts have secently been met gives evidence that we shall soon be in a condition to make this paper, what such a journal shuald be, an judisponsible companion to every one to. gaged in mining.

The Mart L. Gardiner. - We have tazen considerable pains to ascertain the facts in the case of the rep. ated sudden advance of the stock of the Mary L. Gardiner, as given in our Esmeralda Stock Report of Jane 29 th and July bith. Letters from responsible parties in Aurora, assure us that there was no foundation whatever for the reported discovery of rich tock, or advance of that stock. Oar correspondent writps $\mathrm{a}_{\mathrm{s}}$ that he was imposed upon in the matter, by one of the owners in"the claim, "who has always, heretofore, bees ooked upon as a reliable man," and that be should take due precaution that such an occurrence shall not be repeated. We have reason for believing that our Stock Repors for outside localities has been as correct and reliable as is consistent with the unsettled and fluctuating condition of ach markets. Our chief Pegret is that our corre-pondent has not farnished as with the nome of the party who has sought to, thus surreptitiously, make an improper use of our columns.
Mexican Ores.-The Steamer Oregon, which arrived on Wednesday last, brought up from Cape St. Lucas, 600 alacks of silver ore and 286 bars of unparted silver aud lead.

Rice Copper Discovery.-The Ione Chronicle has the following: About one year a : 0 , Johnson \& Co., and MeNeely \& Co., of this place, discovered rich copper croppings near the old Boston store, on Dry creek, about two and a half miles nortlr of Ione. As the ledge is on the Pico Grant, the discovery was kept quiet uttil the title was confirmed, when McNeely effected a compromise with the proprietors, and conmenced sinking a shaft on his claim. On the 8th of July, at a depth of two feet from the sarface. a lode of very valuable ore was struck. The vein is about five feet in width, and clearly defined. This lode is thought to be the richost yet discovered in the state, and runs through our town.

## THE MLINING SEAARE MARKET．

The Mining Shavs Market，during the rast week has quite ressmed its wonted activity．The transactions have ouen large and generally at well sustained rates．
The shief excitement of the werk has been connected with the Ophis＇This stock opened at $\$ 2,400$ ，is decline of 330．Hisputches were rectiverl，on I＇lursdity，that the mine hat heen seriously dunaged by an ext nsive cave which commenced in the Stexican mine，adjoining，and grabuatly lextrnding int，the lower salleries of the Ophir．In conse－ quence of this intelligence the stock gr dually fell to $\$ 2,000$ ． hater and offeial advices are to the effect that but com－ parative little danage hus been dune．The loss of time at the mene will not exceed a week，while the supply at the hills is full throe menthes ahath．The res itt of this later Enteligence has bern to produce some improvemut．The losing quutations ure \＄2，02i．Four handrel and eighty four shares have chaugel hands dari g the week．
Gould \＆Curry shures have improved sonewh it，with mall transactions，however．An improved dividend for the resent month，is now morn conflently expected than ever Chollur haz materially improved－as high as $\$ 1,072$ hav－ ing be＇$n$ paid to fill time contructs．We quote at $\$ 060$ ．
Hale \＆Norcross is quoted at $\$ 1,900 @ \$ 2,000$ ．Far her developments，at this mine，＂re anxiously looked for． Considerable husiness had been done on Buckeye shares， levil＇s Gate Jistricl． 856 shures have changed hands at 14．＂This has been the＂funcy＂of the weck．
Ebsmrariba Stonk has been considerably delt in，a fluctu－ ing and generally falling ratez．
Wide West has been quite active at declining rates． hares open at $\$ 165$ ，advanced to $\$ 175$ ，and closed at $\$ 150$ avorable reports are received with regards to prugress on he artesian well for this mine．
Silver Hill has been largely dealt in at prices verying from 85，50＠$\$ 55$.
Esmeralda is offered at $\$ 20$ ，Utah at $\$ 65$ ．
sheba，declined from ${ }^{2} 450$ to $\$ 160$ ；recovered to $\$ 28 \overline{\mathrm{a}}$ ， his extravagant change is attributable to th．fact that the res from the s＿mine，although very rich，camot be worked iy any process in this country．
I）e Soto．dull at \＄70；Reese River，$\$ 1 ;$ Josephine，$\$ 9$ Bhe Ridje，（El Lorado，）udvanced to $\$ 17$ ；Melunes，dull at 05 ；

## COPPER．

We have nothing specially new in Copper．
Hiphly encouraging a＂counts are coming in from Del orte connty．The Drummend Co．，Richland District，are pading down very rich copper ore，largely mixed with black fide．The Cumpany is sinking a shaft on a three loot bad，and have commenced two tuanels to open their mine．
The Pearl alsu in the same district，has a three foot lead hd are taking out rich ore，carrying much red oxide of cop

Street rumors reach us of new developments at the Evoca Vo have learned no particulars，but understand they are mportant．

A New Kind of Rock from Rhese Rivbr．－The editor the＇Ierritorial Enterpise has seen a sample of rock tuken fom a ledge in the Reese River country，which promises b be of great value as an assistant to the mining interesta is apparently a peculiar species of soap or free stone，soft nd easily cut with a knife or saw，free from grit，and re－ probling in appearance the mottled red and white pipe stone garried at a single point in the heart of Dakotah Territory nd ield sacred by all the Indian tribes east of the Rocky Ionntains．This stone can be cut into any desired form ith trifling labor，and is said to resist the action of fire as pmpletely as the pest fire brick．Should it prove to possess 18 qualities claimed for it，the cost of erecting fornaces in rat region will be materially reduced－

The fifth quarlz mill for Reese River is on its way to that TW silver region，and a large train of freight wagons is on rad for the same locality．

## GENERAL MUINING STOCK REPORT．

HEPORT UN BIDA


## virginia city stocic list．

Corrected for the Miulng and scientiace Preas，Thyrsday，July 16， 1863.

## Bill．Ask＇

## Virginaa Mining District

## All <br> <br> 11 1 1 1 1 1 1 1 1 1 13 13 $C$

 <br> <br> 111
1
1
1
1
1
1
1
1
13
13
$C$}

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



| Wastow | 12 |  |  |
| :---: | :---: | :---: | :---: |
| Pexmin ．．．．．．．．．．．．．．．．．．${ }^{267}$ | 30 | P＇fite al Ulu＇Weet ．．．．．． 185 | 160 |
| 1mimith ．．．．．．．．．．．．．． 1 1i§ | 40 | Wimtrmuce ．．．．．．．．．．．．${ }^{0}$ |  |
| $\begin{aligned} & \text { Pwrwh } \\ & \text { Rokers } \end{aligned}$ | 40 | W゙くら1．．．．．．．．．．．．．． 32 | 15 |
| Rremide | 10 | Flowery District． |  |
|  | ＂6 | Atwill |  |
|  | 60 10 10 | AMtiatic．．．．．．．．．．．．．．．．${ }^{3}$ | ${ }^{4}$ |
| 玉i．tewn ¢¢．．．．．．．．．．．．．． 10 | 20 | H．rretwoii ．．．．．．．．．．．．．．．． 6 | 6 |
|  |  | 1 ¢ ¢1．Sum ．．．．．．．．．．．． |  |

## ESMERALDA stuck LIST．

Ansio Our usual kismeralda let er having tailed to comse to hand，we cuntinue our last week＇s quotations．


Fine Paineng and Tall Cuinney．－A beautiful paint－ ing in oil colors of the famous Gould \＆Curry mill has been on exhibition，the past week，in the show window of Jones， Wool \＆Co．，on Montgomery street．This is one of the most complete establishments of the kind in the world ；and the painting is a most superior piece of artistic work．The tall chimeey which towers high over the building，is 115 ft ． in hight，ten feet square at the bottom，and four at the top． It hus a handsome cut stone base ten feet high，and is cap－ ped in like manner．The chimney is a nice piece of work－ manship，and is an ornament to the mill and a credit to the establishment．

Railroad Bridge．－The Sacramento Bee of the 14th insi．in noticing the progress of the work upon the Pacific Raihoad，says the piles for the bridge over the American have ulready beeu driven for a fistance of 400 feet into the river and that the plogress，and the mowntains of ready framed timber on the ground and on Front street Janding， give promse of the speedy spanning of the American by the bridge and track of the Central Pucific Railroad．

The Washor Stock amd Excuange Board，according to the Territorial Enterprise，is in an exceedingly flourish－ ing condition，with a liberal amount of cash in the treasury． It numbers fify－five members，has an elegant cabinet，and a handsomely furnished room，twenty－five by thirty feet in dimensions，which is soon to be materialily enlarged．

The Wide West Artesian Well is now down between forty and fifty feet．The Esmeralda Star is informed by the Superintendent that the water lad materially increased． As soon as the proper connections are made to apply steam to the boring apparatus they wil progress rapidly．＇Ihe company has ou hand allits necessary fixtures to extend the Aatesian to the lepth of lisu feet．

Ond age is a relentless tyrunt；it forbids tho pleasures of youth on pain of death．
P. M. S. C 0 .

PACIFIC MAIL STMAMEME COMPANYP road with the steamers of the Athantic and lracini
Steamship Compauy at Aspinwenl. FOR PANAMA.

The following Steamshijs will be diepatched in the
month of May, 1663.
July uid,
July 131h
July શ3u,

Will leave Folsom Street Wbarf, with Passongors and
AT 9 O'Clock, A. M., PUNCTUALJY,
And connect, via Panamn Railroad, at Aspiuwall, with steanizliups for Now York.
For Freight or passange

> A. B. FORBES, Agent.
je4 Corner of Ancramento and Leridesteril sts.

## WHEELER'S

Amalgamating and Separating Pans.
Jt is ackanwledged hy stl who have examined the primclples and witnessed the operation of these Pans, that
they are decidedly superior for triturnting and amalga mating purposes to aty other in use.
The minst important principln connected with the operation of these lans is the separation of the trituratiug process from th: tof exiracting the amalgam from the sallul. The estict canse of lose of the precious metals ari-
ses from the passing off of the same in comblation with ses from the passing off of the same in comblation with cleaning up. By the introduction of the separating Pan to f. low the trituration this knss is catirely nvonided. In working these machines there is no appreciable loss
guicksilver, and hence none of the precious metais. Where thege p'ans have been introduced and operat by the side of nthers on sands frimb the same vat, the
Wheeler Praus have unifurmly gained a of mietals over its comprotifurs, as well as a still larger parcentage in the amount of work performed. Fiet These lans ronn he sepli in daily operation, at the aterested are juvited to call aud examine for themselve 3016 -tf ZENAS WHEELER.

## Wm. P. TAAFFEE, <br> importer and jobber of

Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.
Cor. Front and Sacramenio streets, San Francisco.
The Occidental Hotel is now
Open for the Reception of Guests.

THIS HOUSE HAS ALL THE MODE N IMM OVEin the first class hrouses of the Atlantic ciliec. WTho spacious READING AND EXCHANGE ROOMS, have

CABINET FOR MINERALS; Connecting with all the ling graph ofireenghnithe, San Fraucisen, Jan. 1st, 1863.

## J. F. \& H. H. SCHAFER

## BEDDING and FURNITURE,

Blankets, Comforters, Sheets, Etc., Etc. (Near Clay,

San Francisco.
This Estallishment in now gcneraliy known to be tho Branch Store .... Rroed St JAMES PHELAN
IMPORTER AND JOBBER,
Wines; Liquors, Etc, Etc, Nos. 616 \& 618 Fron sree,
Offle or the Nevadu Copper Mining Co.
March 24,3863 . At a nectng of he Board or Trusters, March 24, , 8863. .
held this day, an Was levied uphon
able tiven
wenty (20) (2ent
date, io the secretary

## THE

BRYAN BATTERY
tife tast Internst intolverl is the reduction of ntes on Yaclamery rembloyed for this marpoce shemed be at the mast bifective, Fcemumucal and Durable Character.
It may be salely and that Millinus of lollars have al. It may be salely aid that Millinus of lhollars hare ai
reanty becan expended apon the varinus experiments in thi renty bech expented apon the varmus experiments in thin chass of Machandy, and it is an act weltical experience in the matter that every nirw process developed durlug the past twele years. har he
Statop Baters

## ALONE STANDING THE TEST.

This, with the Improvements which Experience has suggestrit, is now regarded, by common consent, as the ouly reliable

## MFTHOD OF CRUSHING ORE.

Thr Bryan baftriy, as now constructed, is believed on combinc all the improvements which the experierce of the past has afforded. They have been

## EXCLUSIVELY ADOPTED

by many of the most prominent Mining Compalles in the country, and have been, for the three nast yars, suls-
jected to the moil severe of all tests-that of coustngt use-and itr every cerse bave been pronounced

Effective, Substantial and Reliable.
They arn now extensively used throughont the mineral reginge of Catifnenin, Nevana and Mexico, and havo established a claim to public confiatence,
equalled in any picce of minida machivery.
These Millsare constructed almost entirely of Iron and, conserquently, are nit affected by the intinne hen and dryness or atmospled to
tied. Tley are adapted

BOTH WETY AND DRY CRUSIING,
and are warranted to reduce, with the same weight. Stamps, 25 per cent, more rock than any other mill in
use. Each. Rattery is onmprete in itself. and forms $a$ perfect mill-while anv number of them can be adden unformity of the Mill
As an puidence of the increaring favor with which these mills are regarded, we would montion that the
Cetelirated Ophir Company fret introduced them into Celelirated Ophir Company first intronliced them int
thrir works in 7800 , and have heen adling a number nf Rytcries, each subsequent yoar, until
Ninetcen, running Seventy-six Siamps,

They are perfectly fitted nod fet upat our Works, be-
ore shipping, each pirce being markert and numhered, go that they can bo put ne and kat at work in ten hours
 Batery weichme compinte the Five Stamn alont 7.000 . Thr Mortar Bed theing
and the
cast in $g^{\circ}$ ctions, when do ired, sit that tho mills can be cust in soctions, when do ired, si
packed over any monntaur road.
We annex the names of few well known Companics
who have arippted them-rumning fonm fin to seventy who have ningted them-running from fin to seventy

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda John D. Winters \& Co, Esmera
Crown Point Co., fold Hill. Potosi Mining Co., Vi ginia City, Tajo Mining Co. Mexico, Sheba Mining Co., Humboltd. Lotta Mills Con, Coso. American \& Mexexican Co..., Mexico. Snn Carlos Mininge Co... Owen's River, Union Quartz Co., Aurora, Trimion Ninimiz co nueriol Xamm amita co., Aroma Peatuman Dinart Co. Goid fill
 w. R. Churchini\& $\&$ Co. Mesieso,




 Amparona Mining Con, San Bemantion,

MANUFACTURED ONLY BY
GODDARD \& CO., At the Pacific Iron Works, SAN FRANCISco.

08185 to 136 First street, and 126 to 144
p. Donaliue. H. J. boothe c. s. migans.

## UNION

IRON AND BRASS FOUNDRY.
(The First Established in the State.)
H
AVING ADDED TO THE SEVEHAL Giablishment is now the meenty impruven Tonds, flas of ahy on the Pracitic Corast.
Tho undersigned are prepared to furnish, at short no ory slee and description BOILERS.
Locomotive, Flue, Tubular, Upright and Cylinder, fur
nished with or without engiues, cumpiete.
Machinery and Castiots of overy description, EnwQUARTZ CRUSHING BATTERIES Embracing a great variety of Stamp, Mortar and Ca Patterns

AMALGAMATING MACHINERY,
Varies's Tmproved Patent Pans und Eettlers, Wakely Mans, Amalgumating Tuhs, Plaiketl's Grinders, Clije MINING PUMPS.
Cormish, Lift and and Furce lumps, from four to eight icet, stroke, with I'ipes, Bub Mountings, and GearHOISTING DRUMS
For Shafts or Inclines, with cinteh, friction or $V$ concs. Sole Agents and Maninfacturers fir the Pacitie Coast. of C. amd \& G. Ms. Wourlward's Celobrated Fatent Salety
Steam Pumps and Fire Engines.

All Coutracts ant Orders exreuten with promptness je21 DONAIUEE, BOO'TII. \& CO.

## Giffards Injectors,

[-TOR STPPI,YING BOILFRS WITH FEEE WATER Whuble we without ons of theac raluable Instummerals. Send for a Circular.
jo22 Cor. Pine and Front Sts,, San Francisco.

## I. C. E. KLEPZIG \& CO.

GUN MAKERS, DEALERS IN GUN MATERIALS,
733 Washington street, San Francisco,
fOne Door above Kearuey strect.]
Repairing done io a wolkmanlike tnanner al the skorGilding, uud a'sn Sil ver Pluting, by E. Ekland. je21

## CORNLLL'S

## EXCELSIOR GALLERY,

 50 Washington st. Three daors betovHaving refitted the above ronms the undersigned is How prepared to furnish the public with a suririor siyle CAR cily. PIC'URES.
As I have every facility for produeng these heautiful
\$3 Per Dozen and ${ }^{3} 2$ Per Hatif Dozen Large size Pbotngrayds. \$3-Extra copies \$1 eaelh. AMEROTYPES in all Styles and Prices.
OLD IICTURES conied with erro and accuracy, in an Etyle desired, Particular atte' tion paid to picures Children,
lictures paintel in Oil or Water Colors, and retonch in India luk by e competent arlisit. R. H. CORNELL.
je22

## BAUNCHEIDTISM,

The Preserver and Producer of Life



 cheinness is founded ou a rational, scientific busis.
It ent safely, and with sure suceess be apphed to pa
ralysis in consequeluce of apoplexy. Podagra and Rhen ralysis in consequelee of Apoplexy. Podagra and Rhen-
matism of every description, which kiud of complaints can find their only relicf by the nono method.
Esprcially can it be appliell successulty, iu the spring Esurcially can it be appliell successfulty, in the spring
of the year to diseases of the ese.

## REYNOLDS Patent Cut-0ff and Governor FOR STEAM ENGINES. <br> 127 of these Invaluable Machines, ARE NOW IN USE

Saving 20 to 65 per cent of the Finel.

## Steen's Improved Governor

Is the least liable to get ont of order of any Gilivernor use, It can be kuen it cheration at tho firiden state fon
Works, and at the Stone Breaker, fuol of Marke Sun Francis.

## Clark'sSteam and Fire Regulator,

 For contrulling the Draft or Blast by apurnge the: Clumney or Valve it the Blast Pipe by tue presure of th pound, on the square incl. It rassor get ont of and iny person can put one upin an hour after the dan

Ingersoll's Patent Drill Press,
With which dritling can ue dome tue same its with
comment rachet, fund when small holes are wated, can be done furt timary as fast. The batude call be wo

Felt for Steam Boilers, Pipes, Eto."
Steam Engines, Boilers, Pipes, Hydraulw l'resses, Shafling, I'ulleys, Etc., at the lowe
market rates.

## Anti Incrustation Powder,

## EMGHT yars

 Refer Lo-sugar hefinery, San Jranciseo,Cottell \& Car, Sin Jnse,
L. A. Booth, Esq. Virginia City,
and 2,000 others in tho United states.
E. T. STEEN AGENT.

No. $\$ 3$ Fremont Street, San Francisco.
minding \& Scientific press. THE ONLXMHNING, MECHANICAL AN CIC PAPER
CONTINENT.

THKRD JEAR: VOLUME VI--NEV SERIE
A hew volume of this extensively cirealited mas commencer suyt. 11, 1862 . It is intended that eve number shall ho replote with mormatiol coucern. Sompg, sicatic, sechanicit and Industrxab parsun agether with suverth origimal engravinga, ni new onv This paper is flevoted to the above purporsex, togeth with the interesis ni Sidi:nec, Arts, Agrimulturoami Con nerce, and illy genezal information that may he of terest to the reater: und it is the intention or the $p$ prictor tospure no pains or expense in making it
in intarest aud valuable information to any paper published

Will find it of gruat value, as it will contion all ewe appertaimmy to Mining, the prices tand sales of purpone, and of everyinag gencrally that may bo of vice to the Biner. The Inventor !
Will God it an excellent nucdum for the porpase progress of tuvention in this and uther countrien, also of receciving any ioformation that miry be ne sary in obtaining his patent, the preprictors having $h$


The Mechanic and Manwfacturer! Will be greatly bonefitted by its perusal, as ibe ings of new machinges and inventians, together with large amount of reathing matater appertaining there
We are constantly recefing the best scrontric jo We are constantly receining the best sexntric jol to extract whaterer mayy be of bedefit or intorest To Chemists, Architects and Millwrights This journal will ho invaluable. Als new disenver mation of great service to Architecta and Millurig will be fonend in our columns. The Farmers and $P$ aprs will oat be neglecten, engravings will bo given agricul terral implementr, anr
erally will De amply discussed.

## To mail subseribern :- Terms,



1）EsKS
Offico F＇urrniture， OF ALL KINUS．．．．．．NUR SALEAKY

JOHN WIGMORE，
No． 423 Calipornta Sto，San Francirco．

## OFICE Jubisse，of all Kludx，ultondod to．

PALUKLR，HANSCOM \＆CO．，
GOLDEN STATE IRON WORKS， No．19，First serect，San Francisoo， Furniah Castings and Machinery of all kinds Grnctine White Iron Shogs and Diks． palaier，hanscomb a co．

## To Quartz Miners．

Knox＇s Improved
AMALGAMATING PAN， AMALGAM，win PALMFR＇S PATENO＇SIEAM CHEST．
 ouy
 Made exclu－ively twivseor \＆mo，


 Ho sumu without his cullent．W．A．PALMEK．

T．C．Sanborn \＆Co． STOCK BROKERS，
No．630，Montgomery Straet． $0^{\prime}$ hir SILVER MINING stock，
GOULD \＆CURRY MINING STOCK， choldar mining spock， calleornia steam navigailun co＇s stock， BOUGIT \＆SOLD．

## DEETKEN＇S

Chemical and Metallurgical Works， Oil San Bruno Road，Islais Creek，





## LEWIS COFFEY AND BISDON，

 PTEAM EOLLER AND SHLEET IRONThe only exclusively Eoller Making Eatablighment on The Pacitic Cosent Uwaod uod counfluctad by Practirul Boiler Makers． $4 l l$
arders ior New Work，the repairing Work，execeled as ordered，and warrusted wa oquality．
pud Stand，corner Bush and Marizer Streets．
GIpyusite Oriental Hovel，Sun Fraucieco，CuL LEWIS COPFEY
s．N．Rispun．
IHEODOR KALLENBERG
Maker of Models FOR INVENTORS．
$\mathrm{M}^{\text {Acirings，MATHEMATriAL，}}$ ientical and Pliilosoph－
 Repariag of Mueliwery promptly attenided to
No．＊\＄ansome strcet，corner Mraxket


12．W．FISHLOURNE，

## PRACTICAL LTTHOGRAPHER，

EN゙GRAげFL ANU IRLN゙1ほん，


Purchase of Copper Ores，
Ansaying 8 per cent and upwards of Comper to tho Ton． Wi．Will inako adyances upon Oren of COPPER，TIN
 sigumentn if desired by the cottiguors．
Llenry Mabtin，J．F．Ghegnman，
New Xirk．
Sun Franciaco Pont 08ic ：，Box 1－69．
je 1.
Tremont Iouse，

$$
418 \text { and } 480 \text { … Jackson street, }
$$

few durs from Buntgomery，］Sax Ftasclisco，Cint．




The City Railroad Cars pass the Door．
The House is conducted on Teraperance Priciples，
which secures to our guests quiet．
The pricess for bourla and Ruoms aro rery moderate－
by the day，meal or week．We sulcri a cath pros All． by the day，meal or week．We sulictr a call fron all．

For the accommodation of my many guests I have ta－
 curly the the rwo bouges in connection，so that Travelers wixllink to put up at uithur house，may take hie Treminut
or lanternational Ilotel Coich uud be taken to eilluer House with hicir bugguge，Fras．F．E．WEYGANT．

> LEANDER RANSOM, Civil Engineer
and

## SURVEYOR，

Uaving been connected with the public works of the State of Dhio for 20 years，and the public surveys of the State ot Califoruia for I years． ALSO
state locating agent．
And as sucis baving the sale of 600,009 ACRES OF STATE SCHOOL LANDS，

$$
\text { At the low price or } \$ 1,25 \text { per acre. }
$$

Terms－Twenty per cont in cash and the balance on a crellit of spyoral y years．
OtFIC：：Sccond OFFice：：Scond foor of Fxpress Builuing，N．F．cor

## unin <br> DR．H．AUSTIN， <br> DENTIST，

No． 634 Washington street，
Between Montgomery and Kearny，（over Snn Francisco
Baths．）
I have rocently reerired from London a Now aud
Brautiful Vule nite（India Ruvber）for Artificial Teeth which is far superior to any other eve used．It is light cleanly and durable，and of a matural color．The cleap．
est inli begt malleriul for tumporury（und in many cnseas） ast innt begt materiul for tunporary（und in many caseas）
permaneut sets．All operations thoroughty performed， permaueut gets．All oper
and at reasonable pries．a．

## To Mining Companies，

If EREALE－A STEAM ENGNF AND BOLERR，THE F Eughe is 30 horse power－ $\mathbf{- 1 0}$ inel2 cylinder－－ 24 all conphicte The boiler has 5 flues，is 24 free loug， 40
inchess in dizmeter，
 gyaranteed．Apply toll I．H．HAM，No． 211 Clay st．

Tuternational Hotol， Jackson Sther，．．．．．－sin Frenciseo
 stoumor＇a Latulang，Buxinters mix \＆F＇laces of Amusement OPEN ALL NIGII＇。 Ease City Ruilrond Cars P＇uss the Door． REDUCTIUN IN PRLCES

Thoroughiy renoyatid and newiy fub




Best Furnisued Family Rooms；

 aills tu merlha continualuee uf the phpular favor it hat
einoyed luretuture．It will be conductud on Temperauc Priuciples，E．WVEYGANT，Propreetor．

John R．Sims，


Oregon strect，between Washington aud Davis an
and Jucksoa struets，SAN Fravcisco． M anufacturers of Fire Proor Doors and All irders sum the interior Uregou，Warlington Turritory，V．11ccouver＇s Lstand，Britisif polumba，or any aod dispatch

Br．Sims Apprectates the Past liberal patronake of his friends，aud trusta that he may
contiunc to merit it tis the future．

For the Informition of strangers he would say that he feels confident that his experi－ ence in hin particular calling is surpassed by none ou
his cost，which lis suferior work，sent to almost cve－ this coust，Which his superior work，sent to ammost eve
ry luwu in this stite，Oregun，also Victoria und tlue Sand
 ings in Sant Franciseo．fully attests．A large assortmeat
of secoud balud sbutters for sale at

NATHANIEL GRAY， General Furnishing Undertaker， 641 sacramento st．，Cor，of Webb，

FULTON FOUNDRY \＆IRON WORKS

## HINCKLEY \＆CO．，

Steam Engines， Quartz，Flour and Saw Mitles；Cast Iron Fronts，for Buicdings，Mining Pumps， and all kinds of Machinery，Eitc．， FIRST STREET，
between Marker nid Mlation．．．．．．．．．．．．an Francisco．
＊＊＊All kinds of Iron $\Delta x$ R Brass Castixgs furnished nt shiur notice．Eyery style of Tinsising to Irou when cast．Repuiring of dughinery veatly done．
PATrxRN MAEING in all its various forms． D．B．Hinckley．Ws．E．Worth．Wa．A．Firid．

W．T．\＆J．GARRATT， Gity Brass and Bell Founders Cor．First \＆Market sts，San Franelisco．

 Gauge cocks，Cylinder cocks， ， Globes，Stenm Whisbles，
HY MRAULC PIPES amd NOZRLES for MINING PUR HOSFS，Iron steam pipe furnished．with Eitings，dce， COUP＇LING JOINTS or ALL STzEs．Manufucturers of＂Gar ratt＇s Patent Improved Jourual Metal．＂

## SQUARZA＇S ${ }^{\text {P }} \mathbf{P U N C H}$

FIRST PREMIUM
at the sacramento agricultural state fair

## FOR 1862.

ALSO；FIRST PREMIUM
the San Francisco Bay Distriet Agricultural Fair， 1869 manofactory，whoishare and retal， No． 44 Leitsdorfi street， Opposite the What Cheer House，San Francisco，

## San Francisco Maohino

## IRON WORKS！

Northews conmer Fircmont atal Minsion Streets．



 REPAIRING prempty atimdulit in， FOR SALE．
One Vpright Prost brill，l＇utuam＇s manufacture，Al－


## 50 lbs ．MARINE and

Fire－Proof Paint， Maveracturein wivthe pacific mitalichomeal
 tharge and sis othry Muecrats．When ureuc，on therer hicke
 DIRECTIONS ：
For Decks of Suph，ure two parts Mineral Paine，one For luottuas oi Vessels，use one part ground sulphur， three parle Mineral l＇alut，nix willi Coul Tar aud uyply


## 25 POUNDS FIRE－PROOF PAINT．

Wheu used on Runfs，Buildings，wr Fencer，it is equa to coveriug thern with a conat of Stume，being perfectuy Firc Proof，aud costiug less than auy puiat． DIRECTIONS ：
HODSE ：－Mix thiree parts Mideral Pulat with one part White lead，thin with Lillseed oll：if a lighter color is RUOF：－－Yive pa＂ta or Miucral Paint，one part white ILeud；mix with Liusseeld oil．Put it hick on a tin Roor as one coit wheu properly applied will lait three years．
S．U．BRADSHAW，Agt．， G．T．Fovqug，Superinteadeni．C．BRadsiHaw，Agt， WORKS，North Beach ；Offee， 509 Suco ramento st．，San Francisuo．

## WRIGHT＇S PICKS．

$J^{\mathrm{OHNN}}$ WRIGHT，of Sacramento，has establisted num－ soif in San Francisec，for the manufacture of every description of PICKs，of the best material，at reduced prices．Pick Eress of the best irou furbished in any quan tity，at low rates Orders from the country promptily attended to．N．B．－None gennino unless stamped with my name．JOHN WRIGHT， 511 Market atreet， Opposite Buttery，San Frazcisuo．

## WANTED，

GOLD QUARTZ SUITABLE MOR CUTTING JEWELRY，
by frontier a．deviercy，
I8 ap
487 Pine atreet，San Francisco．

FREDERICK MANSELL，
mechinical \＆architecturat
DRAUGHTSMAN
No． 422 Califormia street，corner of Leidsdorff
Drawings of Mopels made fortparties applying for pat－

## HAYNES \＆LAWTON，

 importers and dealers inCROCKERY， GLASS WARE，
FRENCH CHINA，
Coal Oil Lamps，Table Cutlery
CLOCKS，
Silver Plated and Britania Ware，
ETC．，ETC．，ETC．
NO． 516 SANSOME STREET，
［CORNER OF MERCEANT，］
San Franctisoo．

CALIFORNIA TOOL TORKS!
John Weichhart,
All Kinds of Edge Tools, Etc., Plauc Irons

Moulding Irons,
No. 22 Fremont streno Cutter's Tonls, et No. 22 Fremont street, het Marbet aud Missina,
Sua Francisco, July 14, 1863.

CHARIES GEDDES,
ARCHITECT,
Cor. Montgomery and Bush Streets,
Over the Mercantile Library Runms,
| ${ }^{3} 20$
San Francisc
MOYNIHAN \& AITKEN,
Boiler Makers and Blaoksmiths,
Mission, between Beal \& Fremont sts, San Fruncised.
N. B, All kinds of Bailer and Shent Iron Work exce
cuted at the shortest notice, and on the most reasonable
cuted at the shortest notice, and on the most reasinable
jy 20
rerms.

## L. F. LELAND,

STOCK BROKER,

## No. G21 Clay street,

Office Hours, 10 to 11, A. M.; 2 㕸 to 3 名, P. M. Member of the San Francicco Stock and Exuhange Board

MYERS\& DAGGETT'S
Tining and Stock Exchange, No. 233 B Street, Virgiula Cily, N. T.
Mining Stocks of All Kinds Bought \& Sold.
Busimess connected with Mining Stocks of every descrip-
tion promptly anu confaentially attended to *** Alustracts of Titles Furuikher, Etc.

## AGENOY

## For the Purchase and Sale of <br> MEXICAN MININGSTOCKS

At No. 411 Clay Street, San Frabcisco. OFICE OF THE PENA AND LA BFARRONENA SMe
ver Miniag Compranies, Sau Autouio District, Lower Califoruia.
All persons are invited to call and examine Ores from
the above mives. the above miues,
jel 3 Wy. FAEIKNER.

SOUTH PARK
Quartz Mill and Reduction Works,

 Offco in Shiel's Bleck, opposite M. H. SMTHE \& CO, jel3
S. F. CLuUSER, Secretary,

WILLIAM BRODIE \& CO.,
CALIFORNIA FOUNDRY,
Fremont Street, near Market, Sau Francisco.
Light and Heavy Castings,
 ten tion paid to all kindis of House Work, Plait and
nammeutal.
ji 13
D. MORRIS,

MACHINE SHOP,
227 Market, corner of Beale Street.
Manufacturer of
WARRANTED FIRE-PROOF SAFES
3sill Work, of all kinds made to order. All kinds of
jeli3
Repairiug dove at moderate prices.

## REMOTAL,

OFFICE OF THE PACHFIC METAL Havirgical onice is removed to su9 Sactramento street Having enlarged our Works at North Beach, we are
now enabled 20 reduce from 10 to 15 tous of Silver or Gold rack per day.
Gold aud silver or
versmuths' sweepiums redueed or purclussed.
CO1PER OBE - Highest mar pet rates
 509 Sacramento street, bear Sausome.
Napoleon Copper Mining Company,

I. C. KIBBE, IMNING SECRETARY, Commissioner for Nevada Territory,

## EXCELSIOR IRON WORKS

Between Sacksuh and lucitic, Sun Francisco.
GALLAGHER \& KENNEY, Architectural and Ornamental Iron Work cony, Area aul Cewe.rry Raulinge, Gatee, siairs,

Orders trom the country prumptiy attended to.

San Antonio Gold and Silver Mines,
LOWER Californta,
FORWARDING \& MINIIVG AGENCY.
SAMUEL SMI'H,
OFFICE-North West Corner of Front and Clay




PEOPLE'S
steamship Iine? Connecting California and New York via nicaragea.
T50 Miles Shoitexthunany other Route:
The Fast and Favorite Double Jingine Steamship,
MOSES TAYLOR,
J. H. Blethen............... Commander Will be diap.atehed fut
N JUAN DEL SUR From Mission street Wharf,
THURSDAY, $=-$ - JULY 23, 1863. Punctually at $90^{7}$ clock, A. M., on ${ }^{*}$
Coonectiag at GREYTOWN with the Splendid Steamsbip A.MERICA.......... 2500 Tons.

Reduced rates of Paseage and quick trips are secured by the re nputing of the Niearagua Route. and wolcty, and every "Fort will be mate to iunufe the compiry of passrogers
For further information

> OD apply to I. K. RODERTS, Agent,

## FOR SALE.

P
patevt presed ressla iron minng pans, Russia Iron Quartz Sereeras for Ifilss ;
Portable Forfes: Cauluron Keltles ; Fuups, botb Yrame and kist; Lead Pipe; Rubber IJose;
Wrouelht Iron l'ipe;
Wrouplat Irmi l'ipe;
Bhint Cork ; Cuaplingn ; Play lipes;


Lard and Batter Chas of all Sizes:
Irou Wire: Brass Wire ; Copper Wire
Irou Wire: Brast Wire ; 'opper Wire ;
Copper Rivets and Burrs ; Irua Rivets; Etc.
We are also manufacturers of the
UNFQUALLED
MONITOR COOKING STOVE
OR RANGE,

## For Hotels.

To which we call particular attentiou.
je-29
TAY, BROOKS \& BACKUS.

## New Bedford Copper Company.

$T$ AE UNDERSIGNED HADING BEEN APPOINTED CHE UNDERSIGNED HATING BEEN APPOINTED
Agents for the atoove Company, ame recerving regSheathing Copper;
Brazier's Copper;
Copprer Bolits;
Yellow Sheathivg Metal;
Copper and Composition Nams;
Which they olfer to the Trade at the lowget mark
rate, and on the most favorable ter ms.
MORGAN, STONE \& CG

## APARTMENTS.

 Washington strect. Per-musdeairuus of a respeciable
E. C. DAKE, dealer in
CLOTHING,
Gentlemen's Furnishing Goods;

HATS, CAPS, ETC.
At the New York Clothing Storr,
54 \& 543 Washington st. Montg'my Bi
E.T. PEASE, R.S. CORNING, SAM'LC. BOWLEY

PEASE, BOWLEX \& CO,
Real Estate, Stock and Exchange
BROKERS,
oal Montgomery street, San Francisco.
Legal Tender Notrs axd Mining Stoces, BOUGHT \& SOLD.

PUMPS!
HARRISON'S
California Lift and Force Pump, without valyes on packing,
Suituble for Mives. Fire Engiucs, Wrecking or Irrigat-
ing.
 vented.

ALI SIZES;
Capable of throwiug from ONE HCNDRED to FIVE THULSAND Galluns per Minute-For sate by
C. H. HARRISON, Phœati Oil Wores,
j0-29
108 Front Siset, San Franoisco.

$\triangle \mathrm{SSAYS}$ !
Promptness and Accuracy Secured By the Use of the Most Inproyed Methods of A N A LYSIS!
Advantageous 'Terms for Prospector's Clabs and Mining C'onpanies.

## 

## Flomm git fioviriment block, currer of Singme a

## A. C. MORSE, <br> Mining and Real Estate Agent,


HAV1NG MADDE ARLANGRMENTES
 ralda Distriet

## Miners' Foundry

MACHINE WORKS,
First st., between Howara \& Foleom, SAN FRANCISCU.

FTERY DEs'rtption Of iron ant brasc mathl.

 Steam Engines nnd Boilcre, Flour, snuw and Quart: mill machincry, Mhing P'onns, Aroalgamatore, Ketorts
Etc.,
Ele. Pharticular attentinn will be given to the manufacturi of Machinery in Sectinna. Areigued for plaess ar diffient accurs. Various mudnle of Quartz Crusliers, Amalgama
tors and Water Whecls-some in operation and on exhi'
 amill quantities will bo afforded atmple facilities, frco o.
All parties desiring arcurate and highly finished draw ings and Superiou Machinery, at mhat rensanable rutel are errdially invited to call berore contracing elsewher
HOTा.ANB. AvgEL \& KING
Sun Francisen. February 23. 1863.

## New Patent Agency

## 

The Patent Agency Business,
 turon us, We Waresn Experiencer Agent at Waehing
ion, which. tigether with our own experience of \&evera years, renders the
Mining and Scientific Press Ageney
The moct thenthin place in make apulication for Letter Patent on the Pacific enast. Anply at
Office of tho "Mining and Scientific Press," Rnot Offire of the "Miuing and Scientific Press," Finou
No. 27. Federal Builining, enrner of Butpery nni Whali inginn streets, (directly oppasite the Pasi offre, Sia
Francisco.
EWER \& SMill.

FOREIGN PATENTS OB'TAINED By application at this offee, Ronm 27. Federal Ruilding

EWFR \& SMITH, Solicitors.

NOTICE TO INVENTORS. Tnwentars wishing to file Careate sinnuld apply at thi
Office, Ronm No. 27, Federal Building. Trins millt ate

## PATENT RIGHTS

Parent Rights Bought and Sold, th the office of the "Mining and Scientifir Press:' Aceney
ETFER \& SMTE.

JMPORTANT TO INVENTORS.
Inventors whon obtain their Patenta throngh this offc
 the colntans of thi paper Fark of charge, they morel
curnishing the pagravinas. We are alfon prepareil to fuy nish pngravinge at reasonable rates. Thage whi do n .
 our columns, frem of rharge. The free use uf mur en
umn to aid them in introdncing thrir inventions is th public will be found as most important ndrantage in ir
EWEntors.
EWER \& SMTH.


## TREATMENT OF SULPHURETS.

Plather's Chlorine Clas Process for Treating Anriferous Sul plurets. as Employed by Mr. Deetken, at his Metallurgi cal Works, on the San Bruno Road, near this City.
We lad the pleasure, a short time since, of paying a visit to the Metallurgical Works of Mr. G. F. Deetken, on the Sat Bruno road, ahout two miles suuth from this city. Mr. Deet ken has established bimself at this puint which is convenient of approach, both by land and water, for t'e purpose of work ing auriferous sulphurets, alter Plattner's well knowa process but by mechanical appliances of his own invention. By thi process, Sulphurets or pyrites, are worked 10 within an al most unappreciuble percentage of a fire assay. Sulphurets have bern brought to these works after they lave been unce worked, (imperfectly, however, as they alnays will be in un sekilful hunds, and afterwards subsitted to the most carefu and olaborate pan process for amalgumation. The-e same sulphurets, so treated, have subsequently been submitted to treatment by Mr. D. with a result more reumerative, eve than that first cbtained at the mill.
Mr. D. hes made this business a sabject of much study and experiment, the result of which bas been the reduction to pructice, on a large scale, of the well known labratory pro ceas of disolving gold with chlorine gas. Hence the process employed by him it known as the "Chlorine Gas Lrocess," fustead of the "Hydrocloric Process," as stated in a previous is:ue of this paper

## description of the process.

The sulphurets when received at the Labratory are roasted pt a red heat on a reverberatory hearth, until they are com "pletely desulphurised, and the arsenic, if any is contained, fs pretty effectually driven off. This operation requires from 10 to 24 hours, according to the nature of the naterial to be operated upon, the or lusing about 30 per cent. of its priginal weight by the operation. When the roasting is completed, the ore is removed form the hearth to a tank, Where it is slightly moistened. After remaining a proper length of time in this condition, it is again removed to a large vat, capable of containing from three to four tons of the roas'ed sulphure:s. This vat is colstructed after the manner of a filler, and is filled with the ore to within about six inches of the top. A cover of wood is then pluced upon the cistern and carefully luted to render it, as uearly as possible, gas-tight.
The vat, thus prepared and charged with the ore, is now feady for the introduction of the chlorine gas, which is nanufuctured the usual way, and passes into the rat beneath the ore. The gas soon finds its way into and through every part of the entire mass of ore, and of course, comes in contact with every particle of gold, however fine, which, the de;sulphurising process of roasting has liberated from its mechanical and chemical connection with the iron, sulphur and arsenic, in their several combinations. By this process every particle of gold thus liberated, is changed into a chlorine of of gold. When the impregnation is fully completed, the sover of the vat is partially lifted and a stream of water turned in upon the top of the ore, covering it to the depth ff about six iuches. This water immediately commences percolating downward through the mass, dissolving in its
passage, the chlorine of gold, which it takes along to the bottom of the pat, hrough the filter, and is discharged through any convenient orifice, into a leading trough which deposites the liquid into a number of carbuys conveniently arranged for its reception. The gold thus held in solution is then precipitated by sulphate of protoxide of iron. Wa. ter is continually beinr passed hrough the mass of ore to the vat until the test tube shuws that it no longer bringe away gold. The test is very simple and will not fuil to detect the smallest appreciable quantity of gold, even in a large qua:
no
The above process is both simple and effectual, and may safely he pronounced the most perfect and simplest mode of extracting gold from sulphurets yet introduced into this State. Persons interested or curious in such matters will be pleased with a visit to, and an examination of these wo iss. Quartz miners will do well to call upon, or otherwise communicate with Mr. Deetken, upon this matter. The'e are but few mills in the Sate working aurifeous rock who will not find it to their advantage to have their sulphu rets for treatment, under this process. Mr. D. will tak pleasure in showing visitors through his works, explaining the modus operandi, etc. He will also exhibit, in operation, an approved apparatus for seperating the sulphurets from the ore, at the mill, and for a cost of, from $\$ 50$ to $\$ 100$, will furnish said apparatus and provide experienced parties for setting up the same, at any mill, where the pro prietors may be desirous of concentrating their sulphurets Neither power nor clean water are required to operate it.
Mr. D. is now making arrangemen's for working silve ores, a full notice of which, will be made as soon as the neerssary improvements have been completed. It may be proper, in this connection, to state that the process employed by Mr . D. for extracting grold from its ores is not applicable to silver.
Great Salt Mine.-It appears from scientific investiga tions that the salt deposit at New Iheria, Louisana, is of the most ixtensive and wonderful description, rivaling, in all probability, both in extent and purity, the famons, though recent discoveries in the Humboldt region. A late account says:-"Imagiae, if you can, the pranite of Massachusetts. or the marble of Vermont, to be solid deposits of pure rock salt, cleau and trausparent as so mach clear white ice, in one solid, inexhaustible mass, nederlying the earth, and you than acquire an imperfect idea of the vastuess of this salt forma tion."

A Good Summar's Work.-The La Poite Mountain Messenger of t': 18 th inst. says that the Campbell broth ref Chandlerville, near La Porte. took out about $\$ 4,000$ at their first washing in May; cleaned up again about the first of July, taking out $\$ 9,700$; and expect to take out as much more at the close of the season. In addition to this over a thousand dollars was taken out of the sluiges in the spring Allogether, this makes a pretty good summer's work.

- Soldeirs' Vote.- 'The roll of the soldier's names entiled to vote at the next general election, in this Siate, has been filed in the office of the Secretary of State. It is two han dred feet long and cuntains about 8,000 names.


## THE INTERIOR OF THE OPHIR MINE

The local reporter of the Tervitorial Enterprise, paid a visit to the Ophir mine, on the 14th ins ant, une day before the recent extensire "cave." We give the f. llowing extracts from his report of tlat visit :-
We entered the "north mine" through a tunnel in the icinity of O , hir office. and traversed it through H dless drifts and shatts, and climbing down from level to level, on dizay and uncertain ladders, which seemed to rest on solid dankness. We even saw the "Ophir horse," which h.s gained such celebrity on the Pacific corst, a d we cannot say that we were altogether satisfied with it.

We saw the old Virginia ledge, also, where it is cut in a tumel, and there is nothing in it-not even quartz, And we saw a very chrious thing, in the shape of a broad ledge of red, rotten quartz, runuing east and west, straight across the Comstock vein! it contains a trace of silver-about twelve dollars to the ton. Here and there, in the countless chambers of the no th mine, excellent ore is found, but as a general thing, the lead is not near so rich here as it is further south. We went down to the fifth level, and passed under the Spanish mine, reached the main Ophir south of it. Here, vast quantities of first, second and third class rock are being excavated, day and night. A drift has been started, for the purpose of striking the rich streak of ore recently found in the Spanish onine; it will have to be carried fitty feet further before the object can be accomplished. A weary decent of an app rently bottouless staircase, brought us to the lowest gallery-the sixth. It was sloppy in some places, on account of the stream of water struck in the back ledge, four or five monthe ago, and which continues to flow in considerable volume. From this depth - 313 feet below the surface, Mr. Wilder sunk a shaft a hundred feet deeper, but struck water, and had to abandon it. The Latrobe tunnel, however will drain it betore long. The Ophir mine is in superb coudition. and under the watchful care of its ufficers, all its concerns proceed with the smoothness and regularity of a faultless machine.
It may not be out of place in taking this "inside view" of the Ophir on the 14th., to take a review of the same ground as it appeared the day after

> the late cave.

At half past 10 o'clock, on the morning of the 15 th inst., 50 feet, in length, of the Mexicain mine, from top to bottom, ( 215 feet, ) caved in-that is, the opening, made by dritting out the veiln was closed up by the top wall falling in upon the bottom wall, of course, crushing down the timbers. A small portion of the Ophir, adjoining the Spanish- 50 feet of the fourth gallerg-also caved with the latter. The lower gallery of the Ophir, as we understand it, is still in good order, and persous can pass from the northern to the southern Ophir, directly under the entire cave in: both mines.
The Mexican Company will be obliged to sink a new shaft through which to work their mine, while the Ophir will not be inconvenienced beyond the necessity of clrmoing out a little rubbish, which will occupy a small protion of their force five or six days.
The cave, it is suid, had been expected for several days, and might have been avoided by filliny up a portion of he open space with rubbish, which would then have acted as a pillar, of large extent, and been an ample and permanent support for any weight that could have come upon it. The two extensive caves, which now have nccurred on the Comstock ledge, the first, some months since in Gold Hill, and the second one in the Mexican mine, shou d operate as a caution for property securing the extensive workings which are now being opened in that region. Large caves, like the two alluded to. can always be uyoided by a niere modicum of torethought and precaution.

## MEINING CORRESPONDENCE.

Notes of a Trip to Slate Range vía Los Angefos and El Paso.-Ne. 7.

Mesquit Springs, July.1, 1863.
Mr. A. Mc Pherson, of the Slate Range Mill Co., former'y at 426 Davis Street, in your city, spent a portiou of last Friday with me, on his way to San Francisco. I learn from him that the mill is how in complete running order, but water is so scarce they camot make full time, until they receive and lay down the pipes to bring in the water from another spring near by.

## another important devflopment.

This company bas fully demonstrated the fact, that the grese-wood, which is abundant every where on the desert, is a first rate material for making stean. This fuel prodaces such an intense heat, that stemm can be raised and the entire machinery of the mill started in fifteen minutes! Steam can be easily kept up by the labor of one man employed to break up and shovel in this fuel.

The importance of the discovery, to this region, can scarcely be estimated. Up to the time of making the above experiment, all calculation for steam power had been based upon the supposed becessity of contracts of from \$35 to \$t0 a day for wood to be hauled a distance of some sixty-five miles. Failing to find any one to take a contract even at such terms, the Company, as a temporary alternative, took their own team and weut to work hauling in the grease wood with the above result. The total expense will not exceed $\$ 25$ per day.
sales of feet.
The first sales of mining ground in El Paso District, was made on the 2Sth of May last, at the office of C. W. I'appan, Mesquit 6 prings. 1240 feet on eight different lodes, changed hands for the sum of $\$ 1,000$. All concur in the opinion, that $\$ 5,000$ would have been a nearer approximation to their value; but the young man who sold, had his mind set on a counubial engagement, which was to be consumated about the 4th of July, and was determained on selliog. Since that transaction, several other sales have been affected, at at prices rangiug from 50 cts. to $\$ 0$ per foot.
I intend to give in this paper some data in regards to labor to be expended in opening these mines, that I judge will be interesting to working men of small means. We all realise the importance of labor in developing our claims, and feeling our helplessness, for want of means and strength, we are willing to diride with those who feel disposed to furnish those means and help. Holders of the best claims in the district, now offer one half they hold to purties who will simk shafts on them so as to determine whether they will pay to expend further labor on them. Messrs. Keller \& Banning, capitalists of Los Angeles, have taken from fifteen to twenty leads in that way, and have opened some of them, but have suspended operation from dfferent causes. First, they had about twenty-five Mexicans, at about $\$ 25$ per month and found, and three or four Americans. The Mexicans soon became disgusted with the excesive labor under the burning sun, at climbing from five to eight miles to their work every morning, and the small pay.

The Americans were affected in a similar manner, and went to prospecting, fiyding that they could make more in a day at that, then they could in months in the tunnels. The manager, Capt. Moore, has gone down to Los Angeles to make a new start. They will make a rich thing of it, if hey go on ; provided always, the lodes are valuable, and if they are not, a great many experianced miners are most egregiously sold.

I wish the fact promulgated, that these opportunities are open for working men who can raise sufficient means to bring mining tools, provisions and strong muscles into the district, say in August or September. Say three unite, with $\$ 100$ each, buy provisions and tcols for three months, as per memorandum, in my last letter. The cost will not exceed $\$ 15$ each, to Los Angeles, besides freight. Then they can put their freight on a wagon, at five or six cents a poand, and walk out as we did, living on our own provisions, and thus, less than $\$ 20$ dollars will land them here. When they arrive, they can look at the mines and go to work, or they can prospect for awhile and see which will pay them the best.

There is a party, talking abont putting up quartz m.chinery
on a water power at Tahachapa, and another is talking of putting one up here. We hare millions of acres of greaswood,
witli which the Slate Range Mill Co. are so plensed We have also plenty of water, and at Grape Vine Springs, right miles Sou $h$, there is a sufficiency for six mills, with an abundance f fall.
Mesquit Springs is nearly the centre of the district; while Laurel Hill, fifteen miles North, at the nothern extremity of the district, may have the richest ludes, bat fuel and water are scarce.
I have sent to Laurel Hill for specimens from the leads which have been opened there, to forward to you, and hope til get them soon.
There is a splendid water-power at Oak Creek, forty-five miles Sonth, for half-a-dozen mills, and plenty of fine timber. July 5th.-Yesterday morning I started by moon-light, at four o'elock in the morning, and walked to Laurel Hill. applied for specimens, but the miners hesitated to furnish them, as they prefered to wait till they go down on the lead. They are now doing only the days work required on each claim to hold them. I succeeded, however, in securing a few, which with others from this district, I will send you by first conveyance.
C. W. T.

In connection with the above letter, we compile the folloving from a letter from an occasiunal correspondent of the Bulletm, of this city, and published in that paper on Wednesday, last :

## EL, PASO DISTRTCT.

Late assays of cre from El Paso District gives as follows: Of the Ophir, $\$ 1,155$ per ton of silver; Laurel, $\$ 200$ silver and $\$ 76$ gold; Newport and La Plata, $\$ 370$ silver; Mont-
ville, $\$ 15.5$ silver. Tarious other about the same as the Newport.

## shate range district.

In the Slate Range listrict, the Antrim has assayed all the way from $\$ 500$ to $\$ 3,000$ silver. Several toms of ore from this lead liave been shipped to San Francisco, which paid big. Of the Kenebeck, which is near the Antim, no assays, I believe, have been made very lately-at least no returns bare been received here. Those made, some time since, gave $\$ 300$ in silver per ton. The croppings of this lead are said to be 60 feet wide. The Rockland lead gave, from a select $\S$ pecimau, $\$ 2,700$ silver per ton. The Albany, owned by Searles \& Co , who have a mill on the ground, is paying well-gold. The Knoxville has hundreds of tons of ore on the surface that will pay $\$ 200$ to $\$ 400$ gold. The Portland-silver Iead-promises well The Comet, a spur
of the Kenebeck, and the Robert Emmet, both yield of the Kenebeck, and the Robert Emmet, both yield excel-
lent rock, and are thought to be rich. lent rock, and are thought to be rich.
tie colorado river mines.
At El Dorado Cañon, on the Colorado river, the principal lead is the Teschalticup, which, as I wrote you long ago averagel? from five assays orer, $\$ 2,900$ per ton, as they get
down on the lead. The Monitor, in the same district, assaye down on the lead. The Monitor, in the same district, assays from $\$ 600$ to $\$ 1,200$ silver. There are other leads in the canon equally rich with the Monitor, but I cannot give the figures. The Rock Springs distrht and the Chimawayo
district, further down the river, have demonstrated to district, further down the river, have demonstrated to con
tain rich leads; definite results I have not at hand. The Apache Chief Copper lead, still further down, near La raz, is exceedingly rich, assaying, I understand, 85 per cent. of cop per the ore is to be shipped to San Francisco. It is about and the ore is to be shipped to San Francisco. It is about
30 miles from the river-beyond. The Salizar and the Scotty leads, near La Paz, are also rich.

## other mining distriets.

The copper mines of San Antonio, just over the line in Lower California, are very valuable, as they are near water They pay. The owners already have nearly 100 tons ready for shipment. I belive a schooner is now on the way down there for a cargo of the ore to take to San Francisco.

Accounted For.-It has been noticed that the number of marriageable joung women coming overland, this year, is much smaller, in proportion, than heretofore. The Editor of the Humboldt Register, accounats for the circumstance from the fact that the young ladies accompanying the emi grant trains, are so weary and foot sore, when they arrive at Humboldt, that they readily assent to the intreaties of the Benedict miners in that out side settlement, to remain and become wives!
Treasure Export.-The excess of treasure shipments, this jear over last, up to July 20th, was $\$ 4,939,678$.
An Expensive Bumding.-The new Metrapolitan hotel,

Ubefut, And Contement.-H. H. Bahcroft \& Co. have lain upon our table a new publication, very useful and con venient to miners and others in this state. 'The work haf been compiled by H. B. Congdon, Esqu.. and is put up it a neat duodecimo form of 90 pages. The compilers prefuce
which we appeud, is fully descriptive of the plan and ohjec which we appeud, is fully descriptive of the plau and objec of the publication:
"The present volume contains all the laws and decisions which relate to Mining Corporations in the State of Ca ifor Mia; also the necessary forms used in the incorporation o
Mining Companies. It is published because of the great ne Mining Companies. It is published because of the great ne
cessity of such a work. Many thousands of men in C'alifor nia and Nevada Territory are directly engaged is mining and thousands more are owners of mining stocks; many mil lions of capital are invested in then and nearly the wholi bas ness of California and Nevada 'lerritory is busel or mining interests, jet comparatively few persons know any thing definite about the laws which govern these great in terests. T'hese laws are simple and easily understo od.
The professional man wi 1 find the present volume of grea convenience. as all the mining lans are compiled in their p or er orter, and the decisions of the Supreme Court bearing the subject are arranged under appropilite heads. most approved forms used in the formation of companie and a full and complete index are appended, and there wil be no occasion for looking beyond the present volume fo any law, decision, or form which relates to the subject
To the great number of individuals who are members, incorporated Mining Companies and owners of mining stocl as well as those who may become interested in like companh this little compilation presents an oportunity of acruining perfect knowledge of the laws which govern the sulject. their interests.

To persuns who may desire to form Mining Companies gives complete instruction and will enable them to con mence and perfect their organization without legal advice, assistance."

Chinfse Mecuanical Skill.-The skill of the Chines in many of the mechanical arts, is wonderful. We are a sured by a gentleman of this city, who has had extensive of portanities to observe that singular people, in their shop and homes, in the familiar and confiding relation of a relif ous teacher, that the accounts we read of then in this parti ular, are not at ail exagerated As an instance of their ski in one important branch of industry we have before ne, ; this present writing, the account of a meeting of the Ma. chester (England) Philosophical Socity, something over year since, at which, Mr. Fairbarn, the President, exhibite two large pans of cast iron, made in China, which wee ased there for boiling rice. The metal, at the strougest par was only one-tenth of an incli in thickness, and possessi considerable malleability. The President remarked that tl art of making such large castings, so thin and perfect, w: unknown iu England.

An Improved Drilling Macmine.-Mr. J. S. French. this city, says the Bangor (Maine,) Whig, who has been California for some years, and is now on a visit home, h invented a machine by which the common hand drill worked by one man with three or fonr tim+s the rapidityar, execution obtained by the old sledge striking operatio We saw one of his machines, (manufactured by Messl Hinckley \& Egery, ) at work yesterday. By turni g the bi ance-whee of two fect in diameter, which is doue with mu ease, the drill is struck by. a twenty-five pound sledge, fro sixty to ninety times a minute, and penetrates the harde granite as fast as four men will do it by the ordinary proce: The machine is intended for quartz-mining operations, wh horizontal tumels are to be carried into the bowels of gold bearing hills, and it can easily be arranged so as drill in all directions. It appears to be an important bor saving invention.

Rice Qeartz Ledge.-The Nevada Journat, of a ls date says: A rich quartz ledge, situated near Omega, fri which some picked rock, pounded in a morter, has yield the rate of $\$ 5000$ per ton A mill to cost about $\$ 7,01$ has been contracted for, to be put up immedialely. It
supposed about $11 / 2$ tons of the richest rock will pay for some of the most prominent men in this city are engaf in, and are owners of it. The company was incorported $\tilde{J}_{1}$ 11th as the Tecumseh Ledge Co. We have seen some s) cimens which appear exceedingly rich.

Dangerous Character of Black Petroleum.-The Cily Register, in alluding to the recent fire, states that pet leum, in bulk, is very dangerous after being recently agitat Any movement of a large quantity brings up the benzc which is the lightest quality of it, to the top, and into 1 atmosphere. This is an inflammable gas. The slight contact with a flame sets it off in a flash. Bulk oil impr kind it ignites and explodes.

LIST OF MINING COMPANIES HAVING OPEICESIN SAN FRANCISCO. | mivinken PAyFit MISTS. |
| :--- | :--- | :--- |


A.s Ivtehisting justurkiki-An ancient enpper pit, has recentry been opented at the Purtnge Mines, Late sulperiur, Which, in some respects, is the most remarkable relic of nn nuknown race of miners, who worked the copper ludes of that region centuries ago. 'The Lake superior Mining fiezelle snys:
The ancient miners have worked down on the hanging wall sinde about ten feet below the suface of the rook, where further progress was prevented by an almost continous thoor of
coppres. The cupmer in this an is coppr. The coppry in this fluor is exeectingly pere and missive: and most singular of all, many of the lately expused faces bear evidence of having been cul with some smat sharp instrmatht.-. These marks are distibetly visible in sevrat places, the marks and impressim, ths being as cleur and shaty as if made within the past year. This, we heleive, is the first is, lance where it was apparent that any of the anel ent min. ra had tools of sufficient hardne s to take out eopper even ufter being considerably suftened by the action of fire. It is quite evident that, as in almust every old pit which has been upened in the country, tire has been the agent used to soften the metal before it was cut off, as the rocks hear oviidence of catcination. Several stome lammers have also benn taken out of the waste rock and earth, which has heen piled in the pit, and peicesul' birch bark and burnt wood have bepo found mixed As yot the pit is ouly partly cleaned ont, and we may expect to see uther curiosities and pecularitios when the dehris is all removed. Another interesting feature is the fact that the bottom of the trench is nearly one continuous bed of copper.
Pnotograpiz.-Wonderful, indeed, is the progress which has been made within a few years in the photugraphic art. Photographers have taken both the sun and moon when in an eclipse, and most mportant olsservations have been made upon the latter orl, by magrifified phutographic ubservations l'hotographe:s have even caught the impression of a shell whizzing throurh the air from the mouth of a 36 -inch mortar they lave caught the wave as it breaks npon the slore; they have also distinctly depicted the dripping from its toppling erest ; they have even secured a "good impression" of the head of a criminal, in mid air, as it fell from the guillotine into the basket below! Photographic book marks and visiting cards are now sold by thousands in every important town, white photographic shirt stud and vest buttons, ornamented with microscopic miniatures, are daily produceld, in imıense quantities at the button factories of Europe. Even the most delicate steel engravings are now reproduced by the pho'ographic art with a distiuctness and finish, that threateus to entirely destroy the profit of publishers of fine engravings. A superb English engraving which was recently proluced at a cost of $\$ 50$ per copy, has recently been photographed and sold at, from 50 cen's to $\$ 2$-so perfect was the photngraphic copies, that they effectually destroyed the sale of the printed engravings. Quite a number of expensive English prints have been thus "pirated" and so serious bas the practice become, that sui's forinfringments have been introduced and sustained, and danages awarded. The English courts lave finally decided that the statute applies to the copying-by any mode-of copyrighted prints; whether a potograph was of the same size of the orignal picture or not, the statute was equally applicable.

Mineral Discovery in Marin County.-We have before us a sample of ore, obtained from Marin County, which, according to an analysis by Mr. J. H. Churchill, of this city, ontains

| Sescuioxide of Chromium. | 42,0 |
| :---: | :---: |
| Oxiles ol' Yron. . | 40,5 |
| Alumina.. | .15,0 |
| Silica. . | . .2,5 |

This ore will probably be very valuable when San Fraucisco chemical munutactures are further developed.
Candles, wax aud green backs, dyuing aud bleaching wilt eacl lay it under contribution.
The Temfscal 'Iin Mines, sitauted in the mountain range 60 miles east of Los Angeles, are probably the richest mines of that metal, in the world, and would probably have been in active working condition long ago, had it not have been for a dispute between contesting claimants with regard to title. Ine case is now pending in the Southern District Court of the United States, for Culifornia. It has already been argucd, and the decision of the Court will soon be rendered. We may look with much confidence, for early and important develupments from the " Califurnia, Tin Mines" after the decisiun, above refered to, has been duly reudered.

## THE MINERS' TABORATORY-NO. X I. SILVER.

Silver is the whitest of all metals, and is capable of receiviug a lustre inferiur ouly to polizhed steel. It is exceed ingly malleable. and in ductility is next to gold. It is harder than either tin or golld, but less so than copper. When pure it may be easily cat with a kuife, and in that state melts at a full red heat. When fused in an upen ressel, it absurbs oxygen in large quantities, sometmes amounting to over twenty times the rolume of the metal itself. On couling to the deyree of solidity, the oxygen is entirely expelled.

When silver is heated to redness, in cuntact with porcelain or glass, the absorbed osy $e n$ combines with the metal to form an oxyd, which, uniting with the silicic acid of the sabstance with which it is in contact, gives rise to the furmation of a yellow enamel. When heated vtry strongly in a blast furnace, it gives off sellsible metallic vapors. By fusing a large quatity of silver, and afterwards allowing it to coul very gradually, cubic and uctidredral crystals may, on piercing the sulidified crust aud ruming off the still liquid metal, be ubtained: silver dues not adsurb osygen at ordinary temperatises, but speedly becomes blackened on a xposure to an atmophere containing the most minute traces of sulphureted hydrugen gras, whech is decompused by it with the greatest facility.
Heated to redness, in contact with the caustic alkalies, it does not become in the least affected, and is for this reas n frequently emplised for mak ay crucibles to be ased when attacking various substances by caustic putash. Iu the presence, however, of fused alkaline silicates, silver ressels becomes acted on, and the silheate is stained of a yellow culur. Oxyd of silver is reduced by heat alone, and a globule of metal is thus obtained.

Unless in a state of extreme division. silver is sot attacked by hydruchluric acid, and eiven then requires to be heated to the temperata e of ebulition, befure the decumpusition of the acid is affected. By dilute sulphuric acid no effuct iproduced, but when strong sulpluric acid is eroployed, it is, when aided by heat, readily decompused, with the formation of sulphate of silver and the evolution ot sulphuruus acid gas. Nitric acid readily attacks silver even at ordinary temperatures; binoxyd of introgen is evolved, and nitrale of silver is produced. By chlorive, iodine aud browine, silver is, evet in the cold, readily attacked.
Silver is found not only in a pure or native state, but in a great variety of combinations with other metals and substances, forntiug no less than t-euty-three distinct species, already recognized and described by mineralugists and chemists. We shall attempt o so deseribe these various minerals, and their action under the simplest tests, that those not versed in the sci nce of miueralury cin hardly fail to distinguish one species from another, and to ascertain to what species any silver mineral they may find should properly be referred. It is importunt to bserve, homever, that the siuple silver minerals, as with those of other metals, generally occur in the veins in mixtures anong themselve; a d other mineral species, so that it is uot always pussible to so separate them that each may be recognized by its peculiar char acteristics. It is only here and there, generally, that specimens with the characters well-marked and distinct, can be found.

In the apper portions of mineral veins, where the air and moisture has had access for ages, a certain amount of decomposition bas taken place among the minerals, and new combinations have been formed, which may be termed scoondary ures. These are general more earthy, and highly colored than those in the deeper parts of the rein, being more inter mingled with salts of copper and lead, and peroxyd of iron Such ores, in Mexico, are generally known as colorados, es pecially if red, and in Pera as pacos. 'I he ores from a greater depth in the mine which have not been affected by the access of air are more brilliant and black and are called wegros.

If the gangue or vein-stone is of quartz, as, for example, in the Comstock vein, Washoe, this remains a porous mass, or "ledge," aud is more or less free from valuable minerals at the surface, being a mere skeleton of the vein, and valuable chiefly as an indication of riches below. With ores of the precious metals, the cavities of outcrops of this character generaliy contain more or less of the metals in fine grains or dust. which may be collected by pauning, as is well known in the case of gold quartz.

Many of the simple mineruls of silver are very seldom met with, and ure not of conumical msportance. Accurdingly, division has been made, an I the most important ores will be first described. Of this class, the most common mineral izing elements are sulphur and antimony. Chlorine and bromine also furm important compounds, which formerly were only known as mineralogical curiosities, but have since been found to be abundant in some of the Mexican and South American mines. It is possible therefure that some of the cump unds now so rare, may hereafter be fuand among the most important and productive ores.

THE MINES OF LOWER CALIFURIIA-SAN ANTONIO
DISTRICT. DISTRICT.
The above mines are located near the Eastern Coast of the Penensula of Lower Culifornia, and about one hundred miles north o Cape St. Lucas andare not over twenty distant frum good anchorave, in Ventina Bay, to which a good road has been cunstracted, and is now in use. 'Ihe mines of this district were the first ever worked in the Tervitury of Lower Califurnia. The existance of the precious metals in these munntains, had been known to the parly Mexicans long previous to the middle of the last century, but it was ouly at about chat time that any atteation was paid to working them. The missionaries had previutsly discouraged any a tempts of the kind, as likely to introduce trouble and disorder into the conntry.
About the y ar 1750, Don Manuel Ozio, a man who had acquired mue , wealth in the Pearl Fisheries on the coast, coumenced extensive miving operations in this district, by which he added largely to his fortune. About this time, a Castillian, named Marone, also discovered and opened the mine nuw known at the " La Marronena," being named from its discur rer. The two gentlemen ahove named, were consilered the wealthiest men in that part of Nexico. The first uamed paid $\$ 36,000$ in one year as the Goverument's one-fifth share of the returns of his pea 1 fisheries. This muney was paid in "ores " extracted from his mines.
It is said that Marone lo ined the Mexican Guvernment, during a space of two years $\$ 1,000,000$, sll of which was taken, during that time, from his "La Morronena" miue. There are now some twenty mives. being opened hy Sall Francisco capital, in a portiun of this di trict cumpzr.sd within a circuit of es- thau fifteeu miles, aside from them fully three times that number are held by Mexicans. This district is fully equal in value of its mineral wealh, to any similar district in $t$ e world, not excepting even that traverseal by the ramous Comstuck vein in Washoe. The range of mountains intersecting this district rans uearly North and Sonth, their nort ern drection being a little to the East. This mountain range is trav. rsed by three distinct leading veins of highly metaliferous ore, running nearly parallel, and some two miles apart. Upon these several veins, are located the claims alluded to, each full claim comprising 2,600 feet, and subdivided, by Mexican custom, into twenty-four shares or parts.
The middle vein appears upon the surface as three distiuct leads, which, in all probability, uuite at no very considerable depth. The most iuportant locations upon this vein, commencing on the North, are the San Nicolas, San Pedro, La Fortua, La Codicia, Peua, La Solidad, La Marronena, La Mina, Me dociua and Molina. The two first mentioned, the sixth, and the last belong to a company of wealthy Mexicans, residing chiefly in the City of Mexico. This is probably the most wealthy and extensive mining company in the world. In addition to the four mines already named, belunging to this company, they also own eighteen other mines in ither localities, but all lucated on the Penensula of Lower California. This latter lact, is rather significant of the high estimation in which this portiou of Jexico is held, as a mining region by the capitalists of that country. The six mines, above enumerated, as not belonging to the Mexican Company, are under the control of San Frap̣cisco capital, and are all being vigorously worked.
We have before us the first report of the Superintendent. R. C. Jacobs, Esq., of the Pena and Marrionena mines, from which we learn that most gratifying progress is being made upon both of those mines. About 100 cargoes of very rich ore hare been taken out of the latter, besides thoroughly cleaning out the old workings, putting down a new slault, erecting houses, etc., and making all necessary preparations
now in this city, brought up with him thirty sacks of ore, which is to be worked here, as a trial lot. I'his ore may be seen at the office of the sec etary, Wm. Faulkuer, Esq., No. 411, Clay St: eet. No ore has yet been received from the Pena. The preparatory labor, however, fur getting out ore is nearly complete
The first of the re-locat ons in this district were made, about four years since, by the large Mexican Company, at ready alluded to. The greater number, however, were onade last Summer and Fall. The early wolkers of these mines, abandoned them during a revolutionary period that occured many years ago, the precise date of which, we have not now at hand.
We shall resume this subject in our next issue, g ving some account of the aucient manner of working these mises, pecaculiar characteristics of the veins, country, etc.

## THE CUPPER EXCITEMENT.

Rvidence, corroborative of our recent remarks in riferenco to the existence of nudue excitement with regard to copper, is already beyining to reach us. We copy the folluwing siguificant paragraph from the Grass Vally National of the 23d. iustant :-
The fever for prospecting has abated, and instead of the extravarancies in which our people indulged a fbort time. since, as to accumulating fortunes in a few weeks time, copper and other interests are properly viewed, and men an longer become enthusiastic over the discovery of mundic or verdigris, nor du they take such indicatiuns as indubitable eridences that a Union or a Napoleon copper mine is dear the surface, to render them fabuluas rewards for a few days labor. All the prospecting excitements of this cuuntry have had their reactions, generally disastroms in their character, but that of the present is ful of healthful signs. As we predicted last Spring, a majority of the reported copper discovereis hereabout have proved themselves worthless, hut. this prospecting developed numeruus rich copper fields, and from many of the claims but recently opened fine qualities of $\mathrm{cu}_{\text {, }}$ riferous ores are now being shipped. The amount of p ospecting here is at present less than it has been fur the past' six months; while more sulstantial work, with better laborrewards, is being performed than at any time during oar residence in Nevada coanty.

Coso Mines.-Nems of late date from the Josehine Mine, report another rich strike, with strong evidence that it will. coutinue so.
The Mayflower, at a depth of thirty-five feet, is taking out rich rock, and have three tons at the Lotta Mills, awaiting its turn to be crushed. An assay, said to have been made: oul average rock, taken from this claim, by Messrs. Kellogg, Heuston \& Co., gives $\$ 1, \bar{n} 7$ in gold and $\$ 26$ in silver. This lead is situated one mile from the Lotta Mills, and cuntains 1,200 feet,

Richer than Ever.-The National, puolished at Grass Valley, says that the Allison Ranch Company has recentlg, struck ruck much richer than any hitherto fonnd in that fa-, mously rich lode. The discovery was made at the buttom of their 400 -foot incline. The National says it will be crusked in a few days, and predicts that it will astonish even those familiar with that inmensely rich mine.

Iarge Yrehd.-According to the Territorial Enterprise, the Ophir Company took out, within a fraction, $\$ 200,000$ during the month of June. 'This would be equivaleut to about $\$ 142$ par foot. 'The above yield won!d indicate an early advance in the per centage of divideuds of this cumpany.
Divars have already succeeded in securing $\$ 50,000$ worth of gouds, and raised one box coutaining $\$ 31000$ in specie. from the wreck of the Anglo-Saxon, off the coast of Noval Scotia. They also brought up one hundred and sixty dead bodies, and caused them to be buried on shove.

The Business os a Scholar, -To talk in private, to think in solitude, to iuquire or answer iuquiries, is business of a scholar. He wanders about the world without pormp or terror; and is neither known nor valuaed but by men like himself.

LargeLump.-A nugget weighing $15 / 4 / 4$ pounds has been picked up near Columbia, in Tuolumne county.

## THE MINING SHARE MARKET.

The activity in the Miniug sthare Markot, for the past twelk, lima beea quite equas, wany simbar preceeding persud. Whe tralliactions embrace a large number of atuchs, though thetly.cultined to th se that are paying dividends or rapidy billnuachag lat print.
Livuld de Curry shares bave not been dealt iu. Holders are lemandug siv,uvu with buyers at 35,500 . a dividud of blou per luet was declared un saturday.
Uphar has been largeng dealt in at thetuating rates. 'These Hanes upened at $₹ 2100$, advanced to 82,300 , but declined to家,, uv iu cousequetuce of sale of July dividend at $\$ 30$ atd Sio per fuut.
savage remains at about the last quutations. Lfforts are feing imate to secure mill fiechlties for working the ore. hat that end is acconplished, und dividends placed in early reopect, but litele witl be dune in dins stuck.
Chullar still continues lo advance, and is quite in favor, fat watu limited tramsactions.
Irausy shares have been quite aclive, but at declining rates. The murket opreace at $\$ 310$, shmulated by recent advices of avorabie inucutious an the cumpary o mana tumel. Shares ubsequently declined to $\$ 2 \$ 0$, upun rumumers of a luw uivifeud tor the commg month. Dividends on 500 shares or August have beeu suld fur $\$ 7$ dolhars per lout-last dividead 1\%. 820 shares of this stuck has changed hands duriug the

Putusi is enquired for at $\$ 740$-luwest uffer, 8740 .
Aurth Putusi las been quite active at slightly declining ates.
burnside has been largely dealt in at \$11 © $\$ 13$. 432 hares liuve changed hat.us.
Buck ge whicu was a favorite speculative stock, last week, and largely deal. in, has been more quict the past six days hud is quuted at a slight decliue-the sales having been 222 hares at \$ 5 ( 4 \$033.
Liue Ledge, Ll Ľuradu County, is being considerably enfurred fur. sales of 350 sharts are repurted at $\$ 10$ 位 (a) 11.

Sierra Nerada Las a market at \$05; Burning Moscow $\$ 120$. Clarles Cuny is quated at \$TU ( $\omega$ ) $\$ 50$; Lady Bryan is eurgured fur at $\$ 13$; Muant Davisula at $\$ 3$; Sacra hentu at \$ou. Melunes $\$ 115$ (a 125; Fellowes \$65.
Ll Durado shares have be.n in request at $\$ 70 @ \$ 86$ Hadisun is in demand at $\$ 25$; Guvenor Nyeat $\$ 10$. Pride If the West may be quoted at $\$ 100$; Uverman upened at F390, declited to $\$ 365$; Crown Puini shares have reached

Esmeralda.-Wide West has buyers at 145 ; Silver Hill, 35 ; Utalh, $\$ 65 \overline{\text {; }}$; Josephiue, $\$ 11$; Cuso, 20 ; Pond, $\$ 27.5$ Villow springs, \$3.
Humboldt and Reese Rtyer- Sheba, 26 feet sold fo 300 ; De sotu is enquired for at $\$ 75$; Poney $\$ 10$; Buck yo is offered at $\$ 20$; $\mathbf{~ S t}$. Charles is enquired fur at $\mathbf{W}^{2} 4$ Constitution, 15 feet chauged hands at $\$ 15$ per fout ; Hix faage, sales of feet reported at $\$ 50 @ \$ 56$; Humboldt unuel, 120 shares suld at $\$ 1 \frac{1}{2} @ \$ 2$; Americau Basin, 15 asked; Pine Nut, \$10 asked.

## COPPER.

There is an evident lull, at the present time, in the Copper pxcitement, throughout the state. This quie ude, however s indicative of an approaching healthful condition of that ranch of industry. It is a rest from an undue and freazied ttack of Cupper-mania, which will undoubtedly result in huch good by awakeuing prospeetors to the necessity of a proper development of their mives, rather then rushing to lapitali-ts with a few surface indications, to sell "feet" at pig prices. Our people are begining to learn that every furface indication, does not lead to a well founded and payjog vein of copper. Such indications, however, are true |tarting points, which, as a geveral thing, may soon be defeloped into paying veins, or prove worthless to follow. The results of legitimate explorations have already satisfied apitalists that the State is rich in copper, and no doubt heed now exist, but that California will soon take rank as he first copper producing country on the glube. It is not lecesary, to this ond. that every copper mine should become Union or a Napoleon; neither should our miners set down nd take it for granted that there are no more such mines of
copper to be found. Let thom continue their explorations in an energetic and legitimato manner. Tha: chances of snceess in copper, in this state, are undubtedly greater than thuse in any other metal.
The Union is muking daily shipments of ore. $\$ 2,000$ per fuet is asked for the ouly stock in the market.
Newton is progressing sluwly, with no stuck in the market.

Copper Hill is improving, and is now held at $\$ 10$ per share. 'laking ont about trea tons of ure per day.
The Napoleon is progressing finely. A third level is now being run at a depth of 165 feet. The veiu at that depth is 1t feet. Upwards of 100 tons of oro huve been shipped to his city wi hin three weeks.
The Keystone is alao shipping ore and being efficiently worked.
Reports from Carmen Island, are that a large and true vein of ore las been struck.
'There are six Copper mining districts in Butte county. The Fiurest lode, in the Kentucky Ranch llistrict, it is said, yiekls ore containing 60 per cent. of netal. The lode is three feet widu.
In Calarras county, work is rapidly progressing on the Empire, C'alavaras, Lancba Plana, Josephine, Camp \& McNilty, Collier \& Hughes.

 FOR PANAMA.
The following Steamships will be dispatched in the
Jnly 3d,
Jaly 131h,
July asu,

- Stermer Golden Age

Will leave Folsnm Street Wharf, with Passengers and
Sreasure, for Panama AT $90^{\prime}$ CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railroad, at Aspinwall, with
tennslinjs for New York. tenmslinjs for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.
je4 Corner of Sacramento and Leirlestorit sits

## WHEELER'S Amalgamating and Separating Pans, <br> It is acknowledged by all who have examined the principles aud wituessed the operation of these Pans, that they are decidedly superior for tritura mating purposes to any other in use. <br> The mast important principle connected with the operation of these paus is the separation of the trituratiug process from th tof extracting the amalgam from tho sand. The chief cause of hiss of che precious methals :urisand. The chicf cause if hiss of toe precious methls arr- ses from the passing of of the sume in combination with the quicksilver, during the proces of trituration, and in the quicksilver, during the proces of trituration, and in cleaning up By the iutrodnction of the Separating Pan cleaning up By the inlrodnction of the Separating Pan to follw the trituration this loss is entrely arnided. In working these machines there is do appreciable loss of Forking these machines there is no appreciable loss o quicksilver, and heace none of the precious metais. Where these l'ans hare beet infroduced and operated by the side of others on sands from the same by the side of others on sands from the same vat, the Wheeler Paus have uniformly gailied a large percentage Wheeler Paus have uniformly gained a large percentage of metals over its compretitors, as well as a still larger parcoutage in the amount of work performed, *** These Pans man be scen in duly operation, at the Miner's Foundry, on First silreet in this city, where all nterested are invited to call and examine for themselves. 2016-tf ZENAS WHEELER.

## Wm. P. TAAFFEE, matrorrer and jobbbr or <br> - Staple and Fancy Dry Goods, CARPETS, DUCK, ETC., <br> Cor. Front and Sacramento streets, <br> San Francisco.

## D. MORRIS, MACHINE SHOP, <br> 227 Market, corner of Beale Street.

Manutacturer of
WARRANTED FIRE-PROOF SAFES Mill Wurk, of all kinds made to order, All kinds or
Repairing dowo at moderuse prices, Mill Work, of alikinds made to
Repairing dowe at moderuto prices.

## REMOVAL.

O Firgicalome in removert to 509 Sacramento street Having enlarged our Works at Nurth Beach, we are now enabled to reduce from 10 to 15 tous of Silver or
Gold rock per day. Gold rock per day.
Gold and Silver or Versmiths' sweepings reduced or purchased.


509 sacrameuto stroet, near sansume.

## SOUTH PARK

Quartz Mill and Reduction Works,
G OLD AND SIIVER ORRS Worikid AT REASNN. G able rates, and Working Assays mato of small
lots. All kinds of ores crushed at short nutice. Otsce in Shiel's Block, opposite Jlasonic Temple. S. SM, jel3
S. F. Cl.UUSER, Secretary,

WILLIAM BRODIE \& CO.,
CALIFORNIA FOUNDRY,
Light and Heavy Castings,


## THE

BRYAN BATTERY

The rast interest involved in the refluction of ores on Shehinery emplifyed for this purpose should be of It may be safely sand that Millions of Sollars have al ready been expended upon the various experiments in th class of Machubery, and it is a fact well known to all
who hive had any mactical experienes in the matter, that every new process developed durng the past twelve
years, has been set down as a failure. The Orduary
Stame Stamp Battery

## ALONE STANDING THE TEST.

This, with the Improvements which Experience has surgested. is wow regarded, by common consent, as the
ouly reliablo

## METHOD OF CRUSHING ORE.

Thr Bryan Battran, as now constructed, is helieved f the past has afforded. They have been

## EXCLUSIVELY ADOPTED

by many of the most prominent Mining Compantes in the country, and have been, for the three mast ypars, sub-
jected to the most seyerenf all tests-mint of constant jected to the mnst snrere nf all tests-thint o
usc-and in every cuse have been pronounced

Eqfective, Substantial and Reliable.
They are now extensively used throughont the
mineral regino of Californin, Nevada and Mexiro, and ure established a claim to pulific entifleuce, never yet equalled in any jiece of miniug machjnery.
These Mills are constructed nimost entirely of Jron,
and, consequently, are not aftected by the intense heat and, consequently, are not aftected by the intense heat
and drymess of atmosphere, common to all mining localand dryiness of atmophere,
tied. They aro adapted to
BOTH WET AND DRY CRUSHING,
and are warrantor to reduce, with the same weight Stampe, 25 ner cent, more ronk than any other mill in
use. Fach, Rattery is ennpmete in itself, and forms a at a suhsenent time-thus preserving the symetry an uniformity of the Mill

As an cridence of the increasing faror with whicl
these mills are regardef. wo wnuld mentinn thent Celebrater One Oir Company first introdnced then into their works in 7800 , and have heen adding a number of
Ratteries, each sulbequent year, until they new have Nineteen, ruuning Seventy six Siamps,

They are perfectly fitted and aet up at onr Works, be-
orr shipping, each piece being marked nnt numbered, so that they can bo put up and ant at wark in ten hour after arriving on the ground. Thay are maile ol two si
zes, four and five Stimps conh. The Four Stamp
Bat

 packed over any mountaiu road.

Ophir Mining Co., Washoe Valley,
San Marcial Co., Mexico.
John D. Winters it Co. Esmeralda,
Crown Point Co., Gnld Hill.
Potosi Mining Co., Vi• ginia City, The Mining Co. Mexico, Sheba Mining Co.. Humboltd
Lotta Mills Co., Coso. Lotta Mills Co., Coso.
American \& Mexican C
American \& Mexican Co.., Mexico, Sazn Carlns Mining Co... Owen's River, Union Quartz Co., Aurora, Triunfo Mining Co., Mexico, Napa Quartz Co., Aurora, Petaluma Quartz Co.. Gold Fill, Francis Mellus \& Co..Slate Range,
W. R. Churchill \& Co. Mexico, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co.. Rich Gulch Flat, F. A. Beopamí \& Co.. Mexico, O. J. Parker \& Co., Nicarayua, Gibhons \& Clayton. Esmeralda, Smith \& Chouser, S. F Reduction Works, Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY GODDARD \& CO., At the Pacific Iron Works. san francisco.
os 125 to 136 First strect, and 126 to 14 .
P. DONABUE, H. J. BOOTLI. C.S. HGGiNs.

U N I ON
IRON AND BRASS FOUNDRY.
(The First Established in the state.)
HAVING ADDED TO THE SEVEISAT
Eistablisliment is naw hie most Extensive and Complete
of any on the Pacinic C Coast.
The untersigned ase
Thi undersinger Mare preparen to furniikh, at thort no-
ticc, Locomnotire Mirtine and Stationary Lingines, of ev-
ory size uud deceription.

## BOILERS

Locomotive, Flue, Tubular, Uprightand Cylinder, fur
nished with or withont engiones, cumplete.
Machiuery and Castings of every deccrintion, Saw
ilis, Grist mills, Car Whents Dervick lronts etc,
QUARTZ CRUSHING BATTERIES, Pambracing a great rariety of Stamp, Mortar and Can
AMALGAMATING MACEINERT,
Varoev's Improved Patent Pans and Settlors, Wikely Pans, Amalcamatiug Tubs, Plaisted's Grinders, Chil
Mills, Coucentrators, cte., ocle.

MINING PUMPS.
Cornich, Lift and and Force Prums, from four to
ighat feet stroke, with Pipres, Bob Mountings, and Gearcight teets stroke, with Pipes, Bob Mountings, and Gear
ing complete. HIM complete.
HOISTING DRUMS.
 c. aum if $($. M. Wondward's Cotebrated Putent salct) Stean Puunps and Fire Engine
All Contracts amil Orders exreuted wilh promptaes je21
donahte, buoth. \& co.

## Giffards Imjectors,

 Send for a Circular. Davin stondaart, Agent.
Front Sts, Ean Frameisco.
I. C. E. KLEPZIG \& CO.,

GUN MAKERS,
DEALERS IN GUN MATERLALS,
733 Washington strect, San Franclsco [Une noor ubove Kearwey strect.]
Repairing done in a workmanlike manner the the shor Guldiug, and a'su Silver Plating, by Fe likland. je2l

## CORNELL'S

EXCELSIOR GALLERY,
650 Washingtonst. Three doors below
Faving refited the abive ronms the undersigned i How prepured to furbisb the public with a wuperinerstyle
of licture, at at fower arice than over before offered in the city. CARD.PICTURES.
As I have every facility for propucing these buatiful
pictures, it all theicis different varieties, I bavereducod the price 10 . \$3 Per Dozen and \$2 Per Half Dozen
Large sizn Photngraphs, \$3-Extra conies \$l each. Anbrotypes in all styles and Prices.
OLD PICTURFS copled with care and accuracy, in any
style desirod, Particular atte:tion paid to pietures o style desirod, Particular atte:Lion paid to pictures of
Chiliren,
Sictures paintel in Oil or Water Colors, and retouched


## BAUNCHEIDTISM,

The Preserver and Producer of Life
 aud neels so more proof. The puilich has crowned meant

 It car safely, aud with sure rucess be apphed to na-
ralysis in coosequence of A poplexy, Podagra and Rheu-
matism of every deserintion, which Kind of complaints matism of every deserintion, which kind of complaints
ean find their only relief by lue above method.
Especially can it be applied sucessfully, in the spring
of fhe gear to disenses of the eye.




# REYNOLDS <br> Patent Cut-0ff and Governor, <br> FOR STEAM ENGINES. 

127 of these Invatuable Machines, ARE NOW IN USE
Californila and Nevada Territory, giving a perfectly
Saving 20 to 65 per cent of the Fucl.

## Steen's Improved Governor

 use. It call be seen in unerition at the forlen state lron
Works, and at the Stone Brealier, foot of Markeh Street,

## Clark'sSteam and Fire Regulator,

 ney or Valwe in the Blast Pipe by the pressure of the
siram in the hoiler. It will rakulato thu presaure ton
peumb, on the square inch. It Caxiot ret out uf ardor and uny persoll can put one up iu an hour after the dana-
per is put in.

## Ingersoll's Patent Drill Press,

## With which irming can be dme the same as with the

 common rachet, aud when smatl holes are waintelt, it ted in any direetiont
## Felt for Steam Boilers, Pipes, Eto.

## Steam Engines, Boilers, Pipes,

Hydraulic I'resises, SLafting, I'uleys, Etc., at the lowes

## Anti Incrustation Powder,

sure hemedy fur seale in sleam Boilers, without iugn Refor to-Subal lae forer the past EIGiAl years

Cuttell \& Co., Sun Jose,
L. A. Bmoth, Esq., Virgia Clity
E. T. STELN AGENT
mining \& scientific press. THE ONEYMINING, MECHANICAB ANI
SCEENTHFIC PAPIGR ON THIS SCLENTIELC PAPERE
CONTINENT.

THIRD YEAR: VUI,VME VI.-NEW SERIDS A yCW volume of this extenswely circulater pilpt
commented wht. 11,1862 . It is intended that ever number shall be replete with informatina! cunternin Minhme, Scisutific, Mechabial and Iodustrial pursmbs together with several originat elngratilgs, of new inver
tions, ete, prepared expressly for its colnoms. This papher is devoted to the above purposes, togethe
with the interests of science, Arts, Agruculture aded (on mere, and rny general innormation that may be of of
terest to the reader : and it is the intentime of the pre prefor to spare no pains or expense in making it chu publisthed

The Mining Interest ! Will find it of grat value, ns it will enntain all ol
news atpuraing to Mining, the prices and sules of $\mathbf{M}^{\prime}$
 purpose, and of everything seluerally that may be of so The Inventor !
Will find it an excelfent methum for the purpose bringing his 13 vention into notice, of ascertaining t1
progrcss of invention in this and other counttos. ab also of receiring any information, that may be ucece gary in obtioibing his patent, the proprictors having hin


The Mechanic and Manafaclurer Will be grently behe fithed liy its pernsal, as its en
umus will from time latime contam original culuras umbs will from time la tim" contan original chlitas
ings of new machines and inventions, fagefler with
 to extract whatever may be of bencft or interest To Chemists, Avclitects and Millwrights. This jourual will be invaluable. All new discoverii
io Cbemistry will be giren, and a harge arnont uf inf mation of great scrvice to Arelitects and Millwrivh will be found in our columans. The Farmers and Pla agricultural implements, aut the falming foterest ge rally will be amply discussed.

|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# D ESKS <br> Offec Finniture, <br> OF ALL KINDS...... FUR SAL JOHN WIGMORE, <br> Nu. 423 Chitpornha St., Sis Francisco. <br> OFFICE Jobing of ull Klade, uttended to. 

P'ATMEIR, HAN゙SCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 19, Firut street, San Firanciseo,
Furnish Castings and Machinory of all kind:
Grncine Whits Iron Shoes and Dies, pahaler, hanscomb \& co.
To Quartz Miners. Knox's Improved
A MALGAMATINGPAN, WITH
PAT.MERS l'A 'TFA'T SIFAM CUWST.





The public ara turarmed thint Ectura Patent have bee


T. C. Sanborn \& Co. SJOCK BROKERS,
No. 630, Montgomery Street. 0 PImR silver mining stock, gound e curiy mang stock, chmlar mining stuck, california stiam navigation co's stock, BOUGHT \& SOLD.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
san fblivilicico.
Goln bearivg selphusets worked at reas.

 whil nwiers. No power hor cleala water required for
novesisin purpose.

[^4]
## R. W. FLEIBULRNE,

PRACTICAL LITHOCRAPHER,
ENGRAVER ANH IRLNOER,

 arceuded to.

## MINING.

N. B. Mmmg Stork Cirtificites exccutel with prome

## MARTIN \& Co., officke-atat Muatgemery street, up stairs, What contract for the <br> Purchase of Copper Ores,

Assaylug 8 per ceut and upwards of Copper to the Ton. We will mako AnVANCES upon Ores of COPPER, TIN

 Stu Francisco Past onlus, Bux $1: 09$.

## Tremont I-Iouse,

 418 amil 440 .... . Jackson street, THIN FINE, FTRE PROOF BLHLDNG: OFFERS MANY


The City Railroad Cars pass the Door. The House' is conducted ur Temperance Principles, which secures to our guests quet. The prices fir boirll and Ruoms are very moderate-
by the day, meal or weck. We sulicit a call kros alz. F. E. WEYGANT, Proprietor.

For the accommodntion of my many guests y have ta cury on the $s$ wo homses in combection, so that traveler
 or interninitunl LIH tal Coach and be taken to cither Hous
with their baggage, Freke.
F. E. WWEXGANT.

## LEANDER RANSOM, Civil Engineer AND

SURVEYOR,
Having been connected with the public works of the State of Olio for 20 years, and the public surveys of the State of California for 7 years. ALSO

## state locating agent.

600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terns-Twenty ner cont in cash and the balance
on $u$ credit of severul ycars. OFFIEE: second moor of lixpross Building, N. E. cor
ner of Jontgomery aud Califnuluatreets.
net -3 mm ner of Jontgomery auil Califoruia atreels. $\quad$ neit -3 m


## DR. H. AUSTIN,

 DENT1ST,
## No. 634 Washington street,

Between Moutgomery and Kearny, (over Sun Trancisco
Baths.)
I havo recently recrived from Rondon $n$ New and
Beautiful Vulenhite (IIdia Ruviler) for Artiacial Teoth which is far sunurior to any other ever used. It is lisht elenuly und durable, and of a natural color. The cheap. ost unil best matcriul for temporary (and in mayy casean)
permanent sets. All operations thoroughly periormed, Per manert sets, All operations thoroughly periormed,
and at rousonable pricus.

## To Mining Companies.

IOR SALE-ASTEAM ENGINE AND BOILER. THE

 inches in diameter, made up from the best ihree.eighth
inch Low sfoor Iron, and welighs about 5000 pounils
Both Eng giue and Builer are in perfect order and fully Bota Eigiue and Builer


Intel'mationil I Iotel, Jackson Street, FIRE-PROUF BRLC'K BULLIOLN.
 OPEN ALL NIGIIT. Res City Iailroad Curs Pass the Ioor. REDUCIION IN PRICES.




 and siss 18 Goun $A$ Talian nu any Himane in the city

 ensyyed buretufure. It will be conducted ou Temperauc F. E. WEYGAN'T, Proprietor.

## John R. Sims,



Oregor street, hetween Wasbington and Davis und Frobt
and dacksou strects, San Firascisco
Mannfacturers of Fire Proof Doors and Whas All wders Iron the wterior Uregon, Washiogton
Territury, Vancumer'd Iand, Britiah Culambia, or any place on the lrueilic const, attouded to with promptuess and dismatch.
Mx. Sims Appreciates the Past
liberal patronnge of his friends, nud trusts that he may
contiune to ineritit io the future.
For the Informition of Strangers
o would say that he feels confident that his experi-
ence iu his pmirticular calling is surpased by none on
this coast, which his suporior work, sent to almost evewict Islands, mid to be scen on some of the best build-
iogs in San Fraucisco. fully attests. A large assortment of second hand slutters for sale at low rates.

## NATHANIEL GRAY,

 General Furnishing Undertaker, c4l- sacramento st., Cor, or webb,FULTON FOUNDRY \& IRON WORKS

## HINCKLET \& CO.,

mantramturers or
Steam Kngines, Quartz, Flqur and Saw Mills; Cast Iron Fronts, for Buildings, Minina Pumps, and all kinds of Machinery, Etc., FIRST STREET,
Between Makier and mishon...........Sisan Francilco.
Wif All kindr of Iron and Brass Castings furnished
t short aotice. Every style of Finishing to Irou when at short notice. Every style of Finishing to Irou when
cast. Reparing of Machuery neally done. cast. Repinfing of Machinery weady done. Prices low.
Pattern Making in all its various forms. D. B. Hinckley. War. E. Worte. WM. A. Field.

## W. T, \& J. GARRATT,

Gity Brass and Bell Founders Cor. First \& Market sts., San Francisco.






SQUARZA'S PUNCH,
FIRST PREMIUM
t the sacramento agricllitural state fair FOR 1862.
ALSO; FIRST PREMIUM
the San Francisco Bay District Agricultural Fair, 1802
manufactory, whoiksale and rejarl,
No. 44 Leidsdorff street,
Opposite tise What Cheer House, San Frazcisco.

## San Francisco Maohine

## IRON WORKS!

## Northeast conacr Fretmitit aud Mikainu Streets.




 REPAIRING promptly attematio. to.

## FOR SALE.

Tho l'pright loat Hrill, Puthara's manutucturo, at

## Simu Franclaci), July, 1803 .

## 50 lbs marine and

Fire-Proof Paint,
 from gromat Mheral Rock cuotalins Arsenic, Copleer, lia tharge aud slx uther Bimerals. When used mithe Decke
 cleaper taua ay other paiat.

## DIRECTIONS :

For hecks of Shilis, use the parts Mineral Paint, one

 it hot. sale by allship Chandlers and Tradeamen, in buxa of 60 tbs . cach, or by tie Pacific Sletallurgical Works.

## aढ POUNDS FIRE-PROON PAINT**

When used on Ronfs, Buildiuga, or Fencer, it is equa tre Proof, and costiog less than any paint. DIRECTIONS:
HoUsE :-Mix three parts Nineral Paint with one part White lead, thin with Limseed oil: if a lighter color is Wunted, mix less paint, mure leal. Lead; mix with Linseed oil. Put it thick on a tin Roof as one coat wheu properly applied will last tlirec years.
G. T. Fouqur, Superintendent.

WORKS, North Beach; Offee, 509 Sace ramento sto, San Franclsco.

## WRIGHT?S PICKS.

JOHN WRIGHT, of Sacramento, has estabisned himself in San Francisee, for the manufacture of cvery description of PICISS, of tho bost material, at reduced prices. Pick Eves of the bestiron furnished in any quan tity, at low rates Orders from the country promptly atteuded to. N. B.-None genuine unless stamped with my namo. JOHN WRIGHT, 511 Markot street,

Opposite Battery, San Fradeisco.

## WANTED,

$G^{O L D}$ QUARTR SUITABLE FOR
OUTIING JEWELRY,
BT FRONTIER A. DEVIERCT,
IS ap
487 Pine atreot, San Fraucisco.

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAE
DRAUGHTSMAN,
No. 422 California street, corver of Leidsdorff
Drawings of Models made forparties applying for patents at Wastriugtou or Loudou.
mur'23 2m
HAYNES \& LAWTON,
IMPORTERS AND DEALERS IN
CROCKERY, Glass ware,
FRENCH CHINA, Coal Oil Lamps, Table Cutlery CLOCKS,
Silver Plated and Britania Ware,
ETC. ETC. ETC.
NO. 516 SANSOME STREET
[CORNer of merciant,]

To Mrining Companies about to Incorporate.
JOHN ARMSTRONG.

> Converancer,

610 iverchant Street,
Is Prepared to draw with Acruracy and Dispatech Certificates of Incorroration-Trust Deeds, neccessary to the correct ather Papapers, puthies, ou reasumable terms.
All letters oit
All letters of enquiry cheerfilly and promptly ans-
wered. Address as nbove.

## New Style of Ladies' Buckle ! <br> W. BOHM, <br> Inventor and Patentes.

THE SUBSCRIBEP HAVING OBTANNED LETTERS PAT-
ent fom Washingtin for an lmprosentent in the Construction of Iadies' Fuckles, 18 how really to furnish the same in every varicty of style. This buckle possesses several very inportaul improvements over any
other in use.
The invention hating been carefulty eratmined at the
Patent onfec, has been edfudged to be a useful imurovement, and Letters Patent have been granted for 17 years. It excells all other buekels in

Usemluess, Strefigth and Appearante.
The Public is respectfully invited to call and examulue
this Buckio at the Jewelry Establiohment of BEAVERMAN \&LEVY,
621 Wasijugton, ireet, Nun Francigco.
 118 I Street, Sacramento. Agnnts for the Patente.
Every Buckie sold, stamped "W. Bohm," will bo guaranteed as to its Stteugth and Durability.
jy 27

CALIFORNIA TOOL WORES!
John Weichhart,
All Kinds of Edge Tools, Etc., Plane Irons Moulding Irone

Stone Cutfer's Tonls, etc No. 22 Fremont street, bet Market aud Mission,
San Francisco, July 14, 1863.

## CHARLES GEDDES,

## ARCHITECT,

Cor. Montgomery and Bush Streets,
Over the Mercantile Library Rooms. jy 20 San Francisco

## MOYNIHAN \& AITKEN,

Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, San Fravcisco.
N. B, All kinds of Baiier and Sheet Iron Work exeeuted at the shortest nolice, and on the most rensonable
terms.
Jy 29

## L. F. LELAND,

STOCK BROKER,
No. G21 Clay street,
Omee Hours, 10 to 11 , A. M.; $21 / 2$ to $3 / 2$, P. M. Member of the San Francisco stock and Exchange Boar

MYERS \& DAGGETT'S
Mining and Stock Exchange,
No. $23 / 3_{6}$ B street, Virginia City, N.T.
Mining Slocks of All Kinds Bought \& Sold.
Business connected with Miining Stocks of every deserip-
tion promply and
tion prompuly and confiuentially attended to
*** Austracts of Titles Furnished, Etc.

## AGENCY

## For the Purchase and Sale of

MEXICAN MININGSTOCKS
At No. 411 Clat Street, San Franciseo.
TCE OF THE PENA AND La MARRONENA ST$\mathrm{O}^{\text {FFICE OF THE PENA AND LA MARRONENA SLL }}$ Califorvia.
All persons are invited to call and examine Ores from $\underset{\substack{\text { able } \\ \text { jcl3e }}}{ }$

[^5]H. C. KIBBE,

IIINING SECRETARY, Commissioner for Nevada Territory, 548 dacramento st., cor. Monigomery (armory hall.)

EXCFISIOR IRON WORKS, 717. Sansoxae street,

Between Suckson and Pacilic, San Francisco.
GALLAGHER \& KENNEY, Architectural and Ornamental Iron Work


bing done with promptress, ald at Reasmable Prices.
He country
Orders trom the country promptly attended to. je13

## APARTMENTS.

FURNTAHED APARTMETNS, WTTH, OR WITHOUT Washington street. Yeronns desirous of a respeciable borae will do well to anply.

## E. C. DAKE, dealer in

## CLOTHING,

 ANDGentlemen's Furnishing Goods; also
HatS, CAPS, ETC.
At the New York Clothing Store, 541 \& 543 Washington st. Moutg'my Blik jc] Old No. $1+5$.
E.T. PEASE, R.S. CORNING, SAMLL. BOWLEY

PEASE, BOWLEY \& CO.,
Real Estate, Stock and Exchange BRORERS, $6 \not 21$ montgomery street, Sab Francisco. Legal Tender Notrs and Mining Stoces, BOUGHT \& SOLD.

## P U M PS!

HARRISON'S
California Lift and Force Pump, without valyes or packing,
Suitable for Mines. Fire Enginos, Wrecking or Irrigat-
ing. This is the Cheapest, Lifhetest uul luast Luritule, ing. This is the Cheapest, Lithtest aud Lusst Durathe,
and teeist lasbe to get out of ordor, of any Pump yet inand least
vented.

ALI SIZESi
Capable of throwing from ONE RUNTRED to FTVE CEMOUSAVD Gallons per Minute For sale by
C. H. HARRISON, Phoeniy Oil Works,
je-15
517 Frout Street, Sum Francisco.

## New Bedford Copper Company.

 $T$ He midersigned haring bern apponive Agents for the above Company, are receivr supplies of their superior manufuctures of
Sheathing Copper;
Brazier's Copper;
Corper Bolis;
Yerper Bolts; Sueathing Metal;
Copper and Conposition Nalls;
Which they offer to the Traile at the lowest market
rate, and on the most favoralle terms rate, and on the most favorable terms. 1 INORGAN, STONE \& CG

Napoleon Copper Mining Company, Capitai stock................. $\$ 1,680,000$. 2,700 Sharesou-\$600 Per Sharc.
Length of Lead 2,700 Fvet ; Incat inn of Mone, Gopher District, Cataverae cnunty; Incorporated
Velober 3,1862 .

Presldent
Secretary.
Secretary.
Tre surer
Superinten
F. MaCCRIJI.ISH
... 2. C. ALDEN
R. R. ROWN

F. MACCRELLIKE, of Alta Culfirnia





 Office of Company, No. $\underset{\substack{420 \\ \text { je } 209}}{\text { Mnutyomery street. }}$

San Antonio Gold and Silver Mines, LOWER CALIFORLIA,

FORWARDING \& IMINING AGENCY.
SAMUEL SMITH,
OFFICE-North West Corner of Front and Clay
Miviva machivery avn merchandise forwaried, Mluing Claimas secured, through the


## PEOPLE'S

Steamship Line? Connecting California and New York

750 Miles Shoiter than any other Route:
The Fast and Favorite Double Fugine Steamslip,
MOSES TAYLOR, J. H. Bletmen. $\qquad$ Will be di-patelica for
SAN JUAN DEL SUR, From Mission street Wharf,
THURSDAY, -. - - JULY 23, 1803. Punctually at $90^{\circ}$ elock, A. M., od
Connecting at GREXTOWN with the Splendid Ste mship AHERICA . . . . . . . . . 2500 Tons.
Reduced rates of Passage and quick trips are secured
y the re up,nium of the Nicaragua huute. by the re "pintiug of the Nicaragual heute. and affry, and every effort will be made to insure the For furlher inform

> | tinn aplity |
| :--- |
| I. K. ROBERTS, Agent, |

## FOR SALE.

Patent presed russia iron mlnlng pans,
Russia Iron Quartz Scroens for Mills ;
Porthine Furgas ; culdron Kettles;
Putnps, woth Frame and Lift ;
Leadd Yipa; Rubler Huse;
Wroulit rou Yipe :
Wroueht Irou Pipe ;
Btho focks; Couplings ; Play Pipes

Tin Plite : Sthert Iron ; Sheet
Fruit Cabs of tarinus Kinds ;
Lard nad Butter Chan of all, Sizes:
Irou Wire ; Brass Wire ; Copper Wire Irav Wire ; Brass Wire ; Copprer wiro;
Copper Rivets and Burs ; Irou Rivets ; Eto.
Wo are also manufacturers of the

## UNFQUALLED

MONITOR COOKING STOVE
OR RANGE,
For Hotels.
To which we call particular attention.
je-29
tAY, bRoaks \& backus.
The Pacific Mineral Compnay
Make laberal antances upon the oris of
Cupper, Silver, Tin, Niceel, Cobalt, Zinc,
Lead, afd Sulpiugets contarning Gold. Due acenunt taken of all valuble metals combine with Silver avd Capper Ores, and advances made there
${ }^{\text {for. }}$ Parties owning nudeveloped mines and desiriug capital to pruspect the sanue will receive assistance, if, upou ex. ammation, such leanss sre deemed sumfiently' upaluable
to justify such expenditure. to justify such expenditure.


Promptness and Accuracy Secured
By the Use of the Most Improyed Methods of
A NALYSIS:
Advantageous Terms for Prospector's Clubs and Mining Companies.

## J. H, CEURCHILL, M, $\boldsymbol{A}_{y}$

 (FROV EUROPE,)

## A.C. MORSE,

 Mining and Real Estate Agent,Ofrics-s. W. corner Pine and Silver sts., Alrora.
HAVING MADE ARRANGEMENTG
 raldui District

## Miners' Foundry

MACHINE WORKS,
First St., between Howaril \& Folsom, san franctscu.

H VERY DESCRIPTION OF IRON AND BRASS MARII H nery, the Best and Most Ecnnmminal, manufactirpl Whestate of Calitoruin, Whit ho furnighed with dis

Steam Tugizes and Boilers, Flour, Saw and Quart mill maclinery, 3ining Pumps, Araalgamators, Retorts
Etc.,
Etc.

Particular attention will be given to the manufactur, or Machinery in Scctions, designed for thices of rimen tors and Water Whecls-some in operation and on exhi
bitinn.
*** Parties defiring to test their nres practically, amall quantities will be afforded ample fucilities, free

All parties desiring nceurate nnd highly finisher dmw
Ings and Superior Macbinery, it most reasonuble rute
are cordially invited to call before contracling elsewhere are cordially invited to call before contracling elsewhere
HOWI AND, ANGEL \& KING
San Francisco, Fehruary 29, 1863.
New Patent Agency

We hate connectred wethit Thit
The Patent Agency Business,
And would invite Inventors and Disenverers on the Pol
cifc coast, who wish Disnateh as well as Econnmy to cal cifc coast, Who wish nismatch ns well as Ecnnomy to
upon ns. We havo an Fxpericoced Agent at Washing ton. whirls, tngether with our own experience of severa years, renders the
Mining and seientific Press Agency
The most ilosimble place to make rpplication for Leeter The mnst incinable nace to make npplication for lethe
Patent on the Pacife const. Annly at Omme of the "Mining and Scimentifc Press," Rnnm
No. 27, Federal Ruilding, corner of Battery and Wahh No. 27, Ferleral Ruildher, corner of Battery and Waah
ington streets, (directly opposite the Poot Office, : Nu ington streets, (firectly opposite the Poit Offce, Nu
Francisco.
EWER \& SMItE.

FOREIGN PATENTS OB'TAINED
By application at this offlce, Ronm 27, Federal Builalng
EWER \& SMITH, Solicitors

NOTICE TO INVENTORS.

PATENT RIGHTS.
Patent Rights Bought and sold,
the omee of the "Mining add Scientini Preas" Agene,
EWER \& SBITE.

IMPORTANT TO INVENTORS.
Inventors whn nbtain their Patents through thrs nomi enn have their Inventious illustrated and described firniching the encravings. We are alsa premared to fu nish engra rings at reasnrable rates. Thnse whu do care to gn to tho expense ni having eneravings prelas
can have their inventinns fully noticed and deseribed our columns. free of clarge. The frem use of our a umna to aill lisem in introducing their inventinns in public will be found a most important anenntage to it
ventors.
EWER \& SMITII.


## AN IMPROVED FURNACE.

Mr. Edirna:-The folluwing quotation from Wells' Scientific Annual, for 1863 , gives many details of improvements regured for converting fuel into a gaseuus form before its application to heating. This furins the basis of one of the Nurwegian methuds for the treatment of Copper pyrites. It will therefure form a uacful prelude to what I hope to send yon, shortiy, on this suliject. In the recent Intermational Exhibition, in London, metal was exhibited manufactured by this means, in other parts of Europe. Instend of the fireplace of the common reverberatory furnace, a 'gas geverator' is employed.
"This consista of a circular chamber of fire-brick several feet deep, and two or three feet in diameter, closid at the bottom, and having a hopper at the top, through which the fael is supplied. This chamber, at a certain height from the bottom, is in direct connection with the body of the furnace so that flame may issue as freely from it as from the fireplace of an ordinary reverberatory furnace. In the sides of the generator, at a certain distance from the top, is a series of three or four small, round holes on the same level, and at some distance lower down is another similar series of round holes. These holes are for the passage of the air intended to support combustion in the interior of the generator, which is blown in either by a fan or some other convenient blowingmachine." Now, when the generator is full of incandescent fuel, and air is injected through the lateral holes, carbonic oxyd gas is copiously produced and passes into the furnace as there is no other place of egress, the hopper at the top being suprosed to be shat. As it escapes from the generator, it is met by a current of heatedair, or as it is tecknically termed, 'hot blast,' which is injected downwards from the froof of the furnace at or near its junction with the generator either in several jets or one continuous sheet. The carbonic oxyd whil still hot is thus burnt, with more or less air at will. The air which supplies the generator is also previously heated; and in the Swedish furnaces the apparatus for heating the blast consists of a scrios of cast iron pipes fixed at the lower part of the stack. Hence only the waste heat of the furnace is employed for this purpose. It is usual to place a hollow cylinder of iron romd the generator, so as to leave a closed space between its internals sface and the exterior of the generator; and into this space the hot blast is introduced, whence it passes through the two rows of holes previously described into the interior of the generator. The atmosphere of such a furnace can be rendered either reducing or oxydizing at will hy regulating the amount of blast. At the botiom of the generatur is a door, by means of which the ashes or clinker from the fuel may be withdrawn. These furnaces can be so modified as to suit any kind of fuel. A recent writer in the London Timrs adrocates tl:eir use even for the burning of antliracite. He says, "Ihis kind of coal gives intense local heat, but this iuconvenience might easily be remedied by introducing along with the air into the generator a certain proportion of steam. This steam would be decomposed, with the formation ol carbonic oxyd and hydrogen gases and some carbonic acid, and a considerable re-
duction of temperature would be the result. But the heat mained hirlden for centuries. The work was recommeneed thus removed 'rom the chamber would be subsequently re- under Trajan and Adrian; still later, by Frederick II., in stored in the borly of the furnace by the lurning of the com- 1240 ; by Atphonso I. of A rragon, in the seventeenth cenbustible gases derived from the decomposition of the steam, tury; and, lastly, hy Frederick I. of Naples, in the eightso that there would be no Irss of heat, but only a transfer eenth century; but all failed. In 1826, Afan de. Rivera, of it from the generator, where it is not wanted, to the fur- Chief of the Puhtic Works in the kingdom of Naples, obnace, where it is "pplied. The fact is, our mineral fuel has tained leare to clean out the cut or dran made by Chaudius. been so alundant. and so easily acenssible, that it has been 'This work was finished in 1835, but the problem of draining most cruelly wasted. But matters are not quite so smooth the lake was as far off as ever At length, in 1853, a Neaas they used to be, and necessity is berrinning to comuel at- politan comprny obtained permission to drain the lake, and tention from s ur iron-masters to the sulject of economizing take the reclaimed bed for their remaeration. On investifuel in every possible way. The old reverberatory furnace gation, it appeared that the tunnel constructed under Clauis only a clumsy sort of gns lurnace; but in the Swedish dins had not been so planned as to draw the water from the peat-furnares the fuel may be converted into combustible lake. The Emperor was cheated by his Minister of Public gas, which may be applied under the most advantageou conditions.'"

A Poor Chemist.

ANCIENT AND MODERN EFFORTS TO DRAIN LAKE FUCINO, ITALY.

Those of our engineers who may traverse Southern Italy in the course of their travels this year, will find an interesting work proceeding in the northern provinces of Naples-in the Abruzzi-not far from the frontiers of the Roman States, in the works for draining Take Fucino. This lake consists of a
vast pool of water entirely surrounded by mountains. From vast pool of water entirely surrounded by mountains. From
very remote periods, attempts have heen made to drain it without success. Iast year, on the 9th of August, a company, founded by the Roman banker, Prince 'Torlonia, after eight years labor, succeeded in tarning tho waters of the Iake into the river Liri, which flows into the sea, near Gaeta. through a tunnel about four miles in length. When the drainage arrangements are complete, nfarly forty thousand arres of excellent land will be brought into cultivation and thinty thousand inhabitants of the mountains, who are every year driven by the snow storms to take refure and seek labur in 'Fuscany and the-Roman States, will find employment in the diained bed of this lake. "Julius Cesar planned the dranage of Lake Fucino." says an Ttalian wr ter; but the Einperor Claudius made the first attempt Pliny descrihes the wonders of a tunnel following the sides of a mountain at it depth of a hundred feet. And it was, in deed, an astonishing attempt in those days, when the engineers lad none of the appliances of modern science. Claudius employed thirty thousand men in the attempt for eleven years, and exhausted the public treasury. When he believed that his work was complete, he celebrated the event by one of the greatest naumachia, or water fights of the Roman times, in which nineteen thousand men, divided into two flects, fought to the death, "to make a holy day." Clandius. Agrippiua, and young Nero (who, a few months later, becane master of the Empire, ) the imperial court. and an immense crowd of spectators, were present at th.is ferrful and impos ing gladiatorial contest. When the play was plased out the dam which stayed the waters from the tunnel was re moved, and they rushed in with a roar, but soon bailed back The tunnel was a failure! The cause of this failure re

Works. The engineer of the modern company finally decided to destroy the Roman work, and make one of double tho dimensions. Our account dues not come down to the final completion. We suggest the subject to the attention of young tourist engineers and our illustrated periodicals.London Journal of Gas Lighting, April 7.

Casting an Anvil Block, Weigiting One Fundred Tons, at the Midiand Works, Sheffield.-Messrs. Stanley \& O., iron fouders, Midland Works, were occupied the greater porton of Friday in casting a monster anvil block, weighing one hundred tons-by far the largest casting ever made in England. At an early hour the workmen were busily engaged at the furnaces and in the foundry getting everything in readiness for the actual operation of casting, which began about eight o'clock, and continued under the personal superintendence of the Messrs. Stanley, until three o'clock in the aftervoon. The mould-to the uninitiated only an immense hole in the earth-was situated in the centre of a spacious cisting room, having on each side a powerful crane, by which the mol'en metal was conveyed in ponderous "ladles" from the furnaces to the mould. As the burning flood rolled into the fiery pit, sheet of flame and clouds of smoke rose seething and scorcling from the mass, and innumerable stars of strange beauty and brilliancy darted forth ill every direction. to the manifest disquiet of the more curione spectators who had approached venturously near the spot. There were many gentlemen and several ladies present, and great gratification was evinced at the scene they witnessed-not forgelting the manly reudiness and energy with which the grimy and perspiring workmen performed their important and often dangerous parts. A bont a quarter past two oclock the "dross" which had accumulated upon the surface of the metal in the mould, now almost frill, was dragged off, and the top of the mould closed over. the remainder of the requisite metal being poured into it through a central aperture. The metal run from two large cupolo and two air furnaces. The anvil is intended for a $121 / 2$ ton Nasmyth's double-acting steam hammer, resti, g ou a found tion of oak blocks, eleven feet square by four deep, and one hundered and twenty large piles driven ten feet into the ground by stean power. The hammer is for forging the hamogeneous metal for the large Whitworth guns and projectiles, marine engine cranks, and other shafts weighing from five to eight tons each.-Sheftield (Ing.) Tel.

## MINING CORRESPONDENCE.

Ei, Paso Mining District, Los Angeles Co., Mesquit Springs, Joly 12th., 1863. $\}$
Messrs. Ewer \& Smith:-On Friday, the 9th. inst., Sackett's Express arrived from Los Angles en route for Salt Range, and brought me a finelot of your papers posting me np to the date of No. 34 .
On Saturday morning I walked to Ophir City, fifteen miles from here, situated at the extreme north end of this district, to see what was going on there, and obtain specimens for your cabinet. I started between three and four in the morning, lost the trail, but found and followed the wagon road which made my trip three miles further than by the trail.

I found there six camps pitched around in a square of an acre of ground; on the side of the mountain called Laurel Hill, with a fine spring at one corner of the square, at an elevation of 150 feet, or more, above the plain.

I find the task of collecting specimens far more laborious than I expected, but I intend to persevere till I have a goodly number in your hands.

T hope you will label all that I send, that they may make a fair show for our district.

As the cost of forwarding fifty specimens would he but a trifle more than for twenty, I shall wait till I have gathered all I can conveniently, and will endeuvor to give a discription of their appearance.

There are but three lodes being developed at this time. These are the Milliken, No. 1., Manzanilla and Newport, and but little has been done on them, as they are approaching them by tunneling and of course can show no rock from below the croppings. Work will be commenced on the Tucker or "Iron Clad Company"s" lead saon. It is so hot here, (July 14 th., 10 A . M., the thermoneter shows $108^{\circ}$ in the shade.) that men cannot work outside, so nearly all are laying off, waiting for help and tools.

## C. W. Tappan.

Humboldt.-Where are our Humboldt correspondents? We have not heard from them for some time. We have learned incidentally however, that several letters have been addressed to this office, and that the writers are complaining of their non-appearance in our columns. The letters referred to never came to hand. There is a screw loose somewhere; all right, however, at this end of the line. We hope soon to be able to post our readers again in regard to the condition and progress of mining interest in Humboldt.

The United States Tunnel and Mintng Company.-This Company have been long engaged in prospecting their mine, and are now about to be rewarded for their toil and expenditure. After running their tannel 1,600 feet, they have now strack rich quartz in veins of about six inches in diameter, with every prospect of soon reaching the main lesd. About $\$ 30,000$ have been expended upon their tunnel. Enterprises of this cbaracter deserve a rich return.

Copper Mining about Mount Diablo.-The work goes steadily on, and in a number of claims the owners seem to be on the eve of realizing a full reward for their labor. Very fine specimens have been shown us from Mount Zion. and we learn that the company have several tons of ore sacked ready for shipment. The Keokuk, Last Chance, and a number of others, including the Hall claim, in Alamo District, have obtained the most encouraging results thus far.

Santa Clara.-The news from all the prospectiog companies in the hills aronnd Santa Clara is encouraging. At Lexington they are progressing, and are sanguine of striking the vein. Bituminous coal of an excellent quality has also been struck, and no doubt is now entertained of its being in paying quantities. Several influential citizens of this place have been out to a copper discovery-the Savage claimand a company is formed to thorouglily explore and develop it. The prospects are said to be better than they were at Copperopolis.
The oil springs at Lexington, it is said, are to be developed, and an excellent article of crude oil has been brought in from the springs,

THE PLAN OF CREATION.
BY PROFESSOR AGASSIZ.
The animal life of our globe shows that it has been formed with the design of bringing forth man as its last and highest creation: The bistory of the earth during those inconceivable periods of time before the human race was created has been traced by the united laboss of astronomers and geologist.
By the theory of Laplace, which is now generally accepted, it is supposed that the solar system once existed as a nebala, a vast distended flat mass of fiery particles of matter, revolving upon its axis. As it cooled it contracted, and threw off rings on its outer edge, like the rings of Saturn. These were then drawn together into globes of molten matter.
Between the time at which the astronomical history ends and that at which the geological begins, there is a period which has not been examined, because there is no man competent to undertake the investigation. As frequently happens in sciencr, we must wait for another generation to be edncated for this work; for, learning the art of investigaton is the labor of a lifetime

Geology finds the earth in a state of igneous fusion. In examining the rocks of the eartls we find that they consist ot two classes. Those of one class are formed in layers liise the leaves of a book, while those of the other class are simple masses without stratification.

The stratifed rocks were formed by being deposited at the bottoms of seas and lakes. Let me present some of the evidence by which this fact is known. All except the very oldest of the stratified rocks are filled with animal remains: -especially with shells. Now we find these remains always lying upon their broad sufaces. If a shell falls through water and rests upon the bottom, it will not rest upou its edge, but upon its side; and the fact that the shells contained in the rocks always have their broad surfaces parallel with the planes of stratification is one of the proofs that these rocks were deposited in water. Many of these rocks now lie in a slanting position upon the slopes of mountains, but as we find the shells which they contain with their broad surfaces parallel with the planes of stratification we have no doubt that these rocks were formed and hardened in a horizontal position.
The stratified beds have been raised into a slanting position by the rocks from below being pushed up through them. The central mass is of unstratified rock, with the stratifi-d rocks laying apon its sloping sides. We know that these rocks have been raised in this manner, not merely from the broad surface of the shells being parallel with the planes of stratification, but also from the fact that we find the same kinds of rock lying one on another in the same order on both sides of the mountain.
When the unstratified rocks were forced up among the rocks lying above them, they were in a state of igneous fusion. This is shown in the fact that they have run into and filled the crevices and cavities in the stratified rocks, which they certainly could not have done if they had been in a solid state. The fact is farther proved by the alteration which they have made in the portions of the rock with which they came in contact. We know that if marble is put into the fire it will be redaced to quicklime; and that if sandstone is highly heated it is formed into coarse glass. The effects of heat upon rocks of various kinds is well known, and we find these effects wherever the mass from below has broken through the stratified rocks. There can no doubt that that mass was in a state of igneous fusion.
All over the world the highest mountains have been raised ap since the lower ones. The oldest mountains on this continent are the Capotian, extending in an easterly and westerly direction north of the great lakes. The Appalachian chain is older than that of the Rocky mountains. So in Europe, the Alps are newer than those of less elevation. This is what we should have expected if we had reasoned on a sound basis. When the hard crust of the earth was comparatively thin, it would yield to a slight force of upheaval, but as it became thicker from the gradual cooling of the globe, it would require a greater force to break it up, and, consequently, the forces accumulated and produced proportionably greater effects.

When we find one rock which has unquestionably been deposited upon an other rock, it is manifest that the one ly-
ing below was formed first; and thus we are furnished with sure evidence of the relative ages of the rocks. Ihe successive layers of rock are like the pages of a bock, arranged one after another in regular order.
Now let us take a general view of the history of animal life, as preserved in this record. The rocks of the earth are naturally divided into several classes, restigg one upon another.

At the bottom we have thie unstratified rocks-granite, scienite, trup, \&c., and above these the tratified rock; named generally from the localities in which they come to the sur-

The lowest of the stratified rocks contain no animal remains, and are therefore called azoic. But in the silurian we find four orders of animals ; the radiates of which the starfish and the coral are samples; the muluscs, to which the oyster and clam belong' ; the articulates, embracing the lobster and all insects : and even the vertebrates are represented in certain low forms of fishes. This commencement of the creation uf animal life upnn there four modes of structure shows the formation of a determained plan from the be-gining--a plan that embraced the creation of manas its final culnination.

The three lower orders are represented by all the classes which now exist, but at the beginuing there was only one class of vertebrutes, the fishes, after a long time the reptiles were created, then birds, and finally animals, to which class man belongs. The lower orders are not represented in the older rocks by the same species which now exists, hut even in these there has bren some degree of impropement-a general tendency to a higher and more complex structure.
The several species have not been gradually developed one out of another, but in each case a new creation has succeeded to the old.
The rocks nearest the monntain being the most inclined in this way, then other rocks lapping over them and less inclined, till we come to the apper rocks, which are generally horizontal or nearly so. As the shells in these rocks and other evidences prove that they were all deposited in' $a$ horizontal position, it is evident that they have been inclined one after another by successive upheavals of the mountain. The injection of a vast mass of matter in a state of igneous fusion must have destroyed all animal life in the adjacent waters, rendering a new creation necessary. The persistent following of the same plans through all of these successive creations shows the existence of a preconceived design.

Discovery of a Cave in Washoe.-The Virginia Union has the following:
J. W. Rawlinson, of Palmyra Dis't, called upon us and gave us the particulars of a strange discovery which was mude in that District last week. A party of three men were out on a prospecting tour, between the towns of Palmyra, and Como, when they were startled at making a "strike" of a character far from being anticipated; in fact, no less a great natural curiosity than a large cave. The entrance to it is by a long hall, or natural tunnel, about 400 feet in length, and varying in width from 10 to 100 feet; at several places widening into small chambers ; the sides are for almost the whole distance, of solid rock and in several places worn so smooth that it is almost impossible to believe that it has not been done by the hand of man. At the end of this, is a chamber the sides of which are rough and broken, but of great hight and size. Leading from this are four other short arenues, or balls, some of them so low that a person is compelled to crawl through them, each of them, however, widening at only a short distance into small chambers. There are supposed to be other chambers, and probably of great extent, bot at the time Rawlinson left it had not been sufficiently investigated to determine this. The most important and useful part of the discovery, however, is that there wert almo discovered, far in the interior of this immense cavern several splendid looking silver and gold bearing ledges, ani numerous excellent indications. When these facts becams generally known in the neighboring towns, great excite ment was caused, and there was a tremendous rush of for. tune seekers for the new land of promise. Claims werc located in every direction, and the search for now ones was still continuing. This adds still another to the many natural curiosities to be seen in our wonder-producing T'er ritory.

NICEEL MINE IN ITALY.-FUREIGN MINING AND METALLURGY.
A joint-stock organization for working nickel bearings at Crusino has just been formed, under the title of Boulart. Bowher is Ce. The capital of this enterprise is $\mathfrak{E}^{\prime} 9,000$, divided into 1.4 .0 shares, of $£ 20$ each. Nickel is a scarce and dear metal, the use of which is everywhere extending. The governments of Belgium, Italy and Switerland have introduced it into the composition of a portion of their coinage. and it is more especially in the mixtures with copper, tin, sine ur cobalt that it is utilized. The works which apply themselves to the treatment of this metal are not very numerous; there are some in England, one in Belyium, and several in Germany; but this branch of metallurgy has not a greater development, in consequence of the absence of sufficient supplies of nickel mineruls. Some workings of niekelifereus minerals exist in Germany and Italy, and it is in the province of Susi, in this latter country, that the Mine of Cruvino is situated. To pronounce an opinion on a mining working is always a difficult and delicate matter, as, independently of apecial knowledge, a perfect study must be made of the locality. Bat Signor Sella, engineer of the district in which the Cravino mine is found, and formerly Finance Minister, abserves: "The undersigned concludes that the works exceuted by M. Boulart have shown an arsenions vein of cobait and nickel in \& gingue of dolomite lime, quartz, and talcous and winding schists, with which it is intermingled. This vein inclines almost vertically to the West, and the metalliferous threads which it comprises vary in power from a very minute fraction to five-eights of an inch. The undersinged is of the opinion that the works executed up to the present time have presented sufficient indications of $\Omega$ mine of nickel and cobalt; and, although the metalliferous power of the mine may not be considerable, yet having regard to the high price of nickel a very small quantity will pay the expenses of extraction, and the undersigned, therefore, hopes that the Cruvino Mine can be worked at a profit, and helieves, in consequence. that it may be declared open in accordance with the terms of the 15th Article of the Code of 1814." After having indicated the analogy existing between the Carvino Mine and that of Usseglio, Sigoor Splla observes that the disenvery of veins on the extreme limits of a formation of cobaltiferous and nickeliferous veins may involve a fair presumption that a fine future is in store in connection with their working.-London Mining Journal.

## THE PYRAMIDS-HOW BUTLT.

Herodotns, who visited Egypt 445 B. C., gives us some acconnt of the herculean labor there performed. The stones were brought from the mountains on the opposite side of the valley of the Nile. The first work was a giant causeway or road. over which these enormous stones could be transported. Ten years, he snys, one hundred thousand men were employed in this part of the work. After the building of the road came the levelling of the rocky hill, the cutting out of the subterranean chambers, and the elevation of the huge masses of stone. This, the same writer says, occupied three hundred and sixty thousand men twenty years longer! 'Ihe first layer of stones were easily put in their places: the secend were elevated by the aid of machines or derricks. Then, as the heights of the mass progressed there were a series of broad steps, corresponding to the number of layers of stone; as the work proceeded, these machines were planted alang the ascent and the stones elvated from step to step.
Such is the structure we have come to examine, and which now stands before us in all its buge proportions. What an immense laborl What countless years of human toil! What a story of crushing despotism and hard earned slavish servitude! But they were built, and here they stand, and here they have stond for thousand of years, defying the wasting hand of the barbarian, the storms of the desert, and the lightnings of heaven ; looking down in proud contempt upon the fierce conflicts of human passion, and conquering nations have come to deluge with blood, and heap with carnage those beautiful plains above which they lift their lofty heads!-Israelite.

Tobacco smoke blown into to the wound is said to be a sure cure for the lockjaw.

## TO MINERS AND PROSPECTORS.

In view of the fregrent accidental discoverips of valuable mineral deposita, other than gold, in nlmost every section of the state, which have of late heen made, it is hut reasonable to suppose that prospecti gevea in C'alitornia, has but just commenced. The simplest and most universal of all metaliferons deposits is grold. It rarely occurs in uny other form than that of "rree gold" which is readily discernable to the naked eye. An examination of any rock or earth for guld is an extremely simple process. If its presence is suspected in alluvium, the simple washing of that alluvium in a pan is an invariable te-t. If in rock of uny description ; that rock pounded fine in a mortar and washed, in the same mamer as alluvium, will usu.lly expose its gold to the naked eye, if there 18 any there in paying quantity. The only exceptions, are where the gold is contained in ison pyrites, or copper pyrites containing also iron. In either of the two latter cases the presen e of gold may be readily ascertained by placing the pyrites in any suitable vessel and keeping the contents at a moderate heat for from four to six hours, with frequent stirrings, by which means the sulphur will be evaporated, and the copper, if any is present, changed to a dull red color, and the gold retaining its natural appearance, on subjecting the whole to the usual panning process, may be readily seen by the naked eye.
Not so with other metals. Silver, copper; zinc, nickel and many others appear in such a great variety of metalliferous forms as generally to defy all but the most practical and srientific eye. No description of these ores can be written which will afford any very important aid to the inexperienced in making explorations. Alter reading descriptions, however, and carefully examining the specimens described, the explorer may go out and scarch with some degree of confidence and intelligence $\mathbf{A}$ study of the characteristics of the sulphuret ores alone, would lead an explorer to pass over, entirely unnoticed, the nchest varieties of the ores known as Chlorides or Horn Silver, which, from the facility with which they niay be worked, and their usual richness, are generally considered the most valuable of silver ores. There is much reason to believe that this variety of silver ore will be extensively found in all the volcanic regions of this State. So with many other ores.
Considering the great difficulty, in the present lack of cabinet collectiors, and other means of instruction, to acquire a practical minerallogical and geological education in this State, and desirous to aid, to our fullest capacity, the development of our. mineral resources, we hereby make
the offer to $m$ ners, prospectors and all others, who in their the offer to m ners, prospectors and all others, who in their
travels or explorations may come acruss specimens having the appearance of rarity or value, to carefa'ly examine and pronounce upon the same, free of charge, as to their characteristics, value, etc., whenever any such specimens are brought or sent to this office free of cost to us. We have already been called upon in many such cases, and we shall at all times be willing to give our attention to any such requests which may be preseuted to us.
In carrying out the plan we propose, every ininer and prospector should be at all times on the lookout for any new mineral. Tue ordinary rocks with which the miner meets in his travels and labor, and which possess no mineral value are usually well known. Whenever a rock presents any unusual appearance in conformation, color or other characteristic, attention should at once be given to it. There is scarceIy a piece of quartz or rock of a quartzoze nature, which presents any uncommon appearance in texture or color that has not been thus modified by the deposit or intrusion of some mineral substance. If such rock is found upon or near a vein of quartz it should be carefully examined "in place." and if the cause of its peculiarity is not evident and readily seen, it should not be passed carclessly by: There may be value in it, although the gold may not shine there. We shall commence in our next issue a series of articles describing as accurately and as intelligibly as possiblo all the ordinary mineral substances which may be likely to come under the notice of the California prospector. These articles will be published under the head of "The Miner's Laboratory," and will be found of great value to the mining public. [Mining and Scientific Press, Ap̈ril 20.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventora should bear in mind that, as a general rule, any inventiou which is valuabic in the patentee in this couritry, is worth equally as nuct in Einctand and some othrer foreign cumutries. Four patents-American Engli-b, French and Belgian-will secire an inventor exclusive monoply to his discuvery umong one handred millions of the most :atelligent people in the world.
The facilities of business and steam communication are such, that patents cau be obtained abroad almost as easy as at home. The majority of a / patconts taken out by Americans in foreign comatries are obtained through the Mining and Sicientipic Press Patent Anancy. Haviagestablished agencies at all the principal Enrupean seato of Government, we obtaiu patents in Great Britain, France, Belgium, ment, we obtaiu patents in Great Britain, France, Belgium,
Prussia, Austria, Spaia, etu., with prumptoess and dispatch.
Models are not required in any Muropean conntry, but the utmost care and experience is necessary in the preparation of the specifications and drawingse
When partics intend to take out foreign patenta, engravings should not be published until the foreign applicutions ave been made
Caution- - It has beenane n somewhat common practice for agents located in Eugland to send out circuiars soliciting the patronage of American inventors. We caution the latter against beeding such applications as they may otherwise fall into the tainds of irresponsible parties, and thus be defrauded of their rigbts. It is much better for inventors to entruet their cases to the care of a competent, reliable agent at home.
While it is true of Most Euronean countries that the gystem of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal examination; as it is a common practice when a patentee fiuds a purchaser for his invention, for the latter to cause such examioation to be made before be will except the title.

It is also very unsafe to intrust a valuable invention to any other tban a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.
Subscribe.-Are you a miner and not a subscriber to the Mining and Scientific Preses? If so, you are an annual loser of many times the price of a year's subscription, particularly if you are engaged in quartz mining. The same amount of practical information, important to miners and mechanics, which is contained in a volume of the Press, cannot be bought from the shelves of any bookstore in the country for the price of several year's subscription. Do you ever send a paper to the "Old Folks at Home?" If so, and you desire to send important information and valuable reading matter, you can find no papir that will be read with so much eagerness by them, or one that will convey to them so full an account of the real industry of the country as the MrNing and Scientific Press. We invite all to send us their names and four dollars, or two dollars for six months, and become patrons of the only mining paper printed on the Pacific coast. Those who receive a paper with this paragraph marked may understand that it is sent to them for examinamion, and with the hope that it may so for meet with their approval as to wurrant their subscribing for it at once. It is not our usual custom to receive a subscriber for less than six months ; but inasmuch as we are anxious to introduce the paper where it is not now known, we will, for the present, send the Press for three months even, on the recelpt of one dollar, in coin or stamps. It is our belief that no one will wish to discoutue the paper alter being a constant reador of it tor even that short period.

Our Mint, its Rules, Charges and Operations.
For parting silver irom gold when gold
is below 300-1000ths. fine .........................
from 30-100ths. $10750-1000$ ths fine. 7 cts per oz. $750-1000$ ths to $950-100 \mathrm{~h}_{\mathrm{h}}$ " 14 cts " "
Deposits Silver Bullion-Purchases.
$\$ 1.21$ per standard ounce $1 / 2$ per ct. on gross value of all gold contained fur coinage.
Refining charges (only where gold is contained) propor-
tion of goid 1 to 3003 cts. per oz. gross weight
301 " $500,7 \mathrm{cts}$,
Deposits for Fine Bars
\$1 16-4-11ths cents. per standard ounce, $1 / 2$ per ct. gross alue of silver for making hars; also when gold is contained $1 / 2$ per ct. on gross value of gold for coining. Refining charges as in purchases.

Bats Solo From Refinery.
$\$ 121$ cts. per standard oz. $1 / 2$ per ct. gross value to be ad ped for making bars.

Defosited for Dollars.
$\$$ I 16-4-11ths. per standard oz. $1 / 2$ per ct. gross value for oining, when gold is contained, refining charge the same as in purchases.

Deposited for Imported Bars.
\$1 16-4-11ths. cents per standard oz. 1/2 per ct. gross alue of deposit for making bars.

THI MINERS＇TIABORATORY．－NO．XII． SILVER．
Before describing the variuls ores of silver， i ，would be best to phace before our reulers some of the must promi－ neut and characteristic tests for that metal，and in vider to du so we must suppuse that the miner has made a solu－ tion of pure silper by disoolving i in ut tric acid－dissolving， say 20 grmins in about，年 an oz．of acid，and adding 3 oz ．of pure water to the whole，and dividing the solution inte six equal parts，the iproce eding as folluws：
To No 1，add a solution of Sulphurated Hydrogen，which will produce a black precipitato or sediment．
To No．2，add Sufphate of Ammouia，which will produce the same kind of reaction as Nu． 1 ．
To No．3，add Hydruchloric Acid（Muriatic Acid or Spir－ its of Salt，）which will prodnce a kind of white curdy pre－ cipitate or eediment－this sedument will disappear on add－ ing to it a suall quentity of liquer anmun a，and will reap－ pear again on adding to it a few drops of uitric acid．
To No．4，add a solution of Chlurate of Putash which will produce you a brick red precipitate or sedinent．＇This is a very characteristic test fur silver in sulution．
To No．$\overline{5}$ ，add a Solution of Potassa，which will produce a brownish black precipitate or sediment．If you culleet this sediment on blotting paper，dry it，and heat it in a small dish，you will convert it into metallic silver．

No．6．－In this porticn place as strip of briglit Copper for a few moments，and silver in the metallic state will be de－ posited on it．

It would be well if all parties intending to test minerals for silver，would make themselves thoroughly familiar with these reactions．Uther metals g．ving alusust similar r．ac－ tions，parties，not thoroughly acquainted with the tesl：for pure silver，are liable to be misled．and to think that they have silver when in reality it is sume other metal．In order to illustrate this more plainly，we will suppose ourselves for a few moments examining the coutents of several buttles for silver．In the first place we would liabel these，No．1，2， 3,4 ，decor we would then take a purtion of $\mathrm{N} \cdots 1$ buttle and add to it a solution of Hydrochloric acid－a white precipi－ tate would lead you to think that No 1 was the buttle which contain $d$ silver in soluti in．But in reality it may be either silver，lead，mercury，antimony，or bisunuth，and our next point would be to uscertain which of these metals are in solution．This can be proved as follows：Pour the the clean liquor fr m the sediment aud boit the sedment with about $1 / 4$ of an oz of Hylrochloric acid for a few mo－ ments．If the precipitate dissolves，then it was not silver， but antimony or bismuth．Snould it not disappear，pour the clear solution awny，and boil the sediment a second time with considerable water，aay 1 oz．Should the sedinent dissolve，then lead was in solution，and not silver．Shuuld the precipitate not dissolve．pour the clean liquor away again and add to the same sediment liquor anmonia．Should the sediment tura black，then mercury，but if it dissolves， leaviag a bright clear solution，then silver is the metal held in solu ion．

In our next issue we shall describe the ores of silver and how to discover the pre eace of that metal is such combi－ nations as the miner may come across ；but we will say that it is absolutely necessary that he should first be thoroughly acquainted with the tests and reactions of pure silver as laid down by me in the commencement．

Copper Ore．－Copper ore of a rich quality has been found in British Columbia．A lead of native copper has been dis－ covered withiu ten miles of Victuria．

Tue Editor has been absent from his post during the past week ou a short trip to the copper miues of Calaveras and Amador．
Cariboo－Many of the clams on William＇s Creek，B． C．，are paying enormonsly．Some yield over a hundred pounds of gold per day．

Tee Pacieic Montrly．－The Pacific Monthly for August， is out．Among the good things contained in it，is a list of ＂The Prominent Men in California iá 1846，＂by Thomas 0. Larkin，Esq．This must be interesting to all new－comers， as well as torty－niners．
［For the Mining and Scienific Press．］
THE APPLICATION OF PHOTOGRAPHY TO MINING．
When St．Victor first made his experiments in the applica－ tion of light to seusitized surfaces，and aided by Daguerre，work－ eld out the great problem which they were buth endeavoring to solve，he little thought what an immense advantage would arise to ：he worll at large．Iroun his makiog a practical thing of the action of light upon metallic oxydes．

I he casual observer as he passes the numerous groups of of ph tographic jictures which meet his graze in almost every street，luoks upon the art as something that pauders to the vauty of the multitude，or tends to keep alive the bonds of memory Even the most practical men，those who are en gaged in the developement of the rezources of the conntry， in their hasty conclusions，deen that the work of the photis－ grapler，is but an idle occupation，and of no actual benefit ave to the operator himself．
But while the astronomer takes pictures of the sun，moon and stars ：while the mechanic obtains viers of his machin－ ery，so perfect in persbective，so accurate in proportio：and detail，that they may serve as working plaus ；and while the architect produces aduirable representations of the buildiugs he cunstructs，all，with the catnera．the mining a ngineer al－ so dues in many instances avail himself of th．same method to illustrate the advances he has made in his labors，and to show t e grounds upon which he is working．
It is seldom that the Board of Directors ever visit the mine ；the stockho ders themselves rarely travel thitherward； and all the information which they gaiu of the progress of the work，or the character of the country at the mine，is de－ rived from the terse and sentenciutis reports of the manarer． Did the manager understaud the use ol the camera，a know－ ledge which is very easily acquired，he could show trom ac－ tual views，the proyress made in his work，werkly，or monthly， a－night be desired．He could present pirturus of the mine and its surroundings，show the bearings of the outerop，the trend of the vein，the features of the idjoining country，and in fact，each，and every minutise，that would aid greatly in satisfyng the Board of the correctness of his system，and in faniliarizing ihen with the property whose interest are in trusted to his guidance．When th＝coustruction of build－ ings o：the erection of machinery is progre sing，a few min－ utes work with th camera，at the cluse of each week，will shuw the exact stage of the advance made siuce the last view was taken．So much wall has been built，so much ma－ chinery has been put iuto position，so much excavation has been made，and the quick action of the camera has told the story more pla，uly，more trutlifully，than a volume of words could do．

Much of the value of the vein，can be foreshadowed by the physical features of the country in which it is situated． If easily accessible，even a low grade of ores could be worked profitably，while those which might be very rich， would，from he expenditure necessarily entailed upon them， by the diffcaltios of their pusition，never be remumerative． Here the camera becomes useful in its correct delineations of the surface，showing to those who reside at a distance from the mine，the actual position of the vein，and the facil－ ties of approaching it．It is true，that an absolate necessity dues not exist，for these features of the mine to be presented to the notice of the Buard，but it cannot be doubted that the more fully they understand their property the better they will be able to manage it．It is not possible for all to visit the mine，and by actual inspection，and examination，make themselves conversant with ail the local details of it；but they can avail themselves of the aid of this branch of science， and briug，as it were，the mine to their own uffices，or fire－ sides，and insp et it at their leasure．Thase who have scen the views，which have been taken from time to time，by the different artists of ths State，of various mining localities， can readily understand，how greatly such delineations must aill in a correct estimate of the value of such propertie．，hy those who cannot visit them in person．Nur is at necessary to be encumbered with costly or heavy and clumsy apparatus； a light and portable camera，with the stand upon which to place it，so light，that both can be carried with ease by sus－ taining their weight upon two fingers of the hand，with lenses that can be readily carried in the vest pocket，can readily be obtained at any of the photogrphic warerooms．The writer of this article has a complete apparatus，which is packed in
a box about one foot square，containing the camera，glasses a box about one foot square，containing the camera，glasses for pictures，lenses，and the requisite chemicals；the whole of
which does not weigh over a dozen pounds．And often in journeying throngh mining districts he has stopped his mule，taken a view and in eight minutes been agan upun lis journey．
Such is the progress made in the art，that plates are now prepared which may be fopt for years，if not expmosed to the light，and then be placed in the camera，and a view taken upon them．This advancenuent in the art，precludes the ne－ cessity of carrying bulky packages of bottles and chemiculs， while travelling，trobtain good viows，and thus places it in the power of any who are so dispused，to bring back with them picturesque delineations of the scenes through which they bave passed．It can be rendered practically useful by illuatrating the progress of work apon the mines．

## CALIFORNIA＇S WANTS．

California wants two hundred thousand pair of working lands，one hundred thousand brave aud hardy men who are unither tou proud nor too lazy to work，but who are willing to labur and wait if the sure results of hunest toil．Be－ tween the grey ribs of granite，lic burried milli ns of pres－ cious metals which nothing but the strong arm，the drill and the pick，together with the aid of mechanical industry，can bring out ；but besides all this mineral weal h Califorvia offers a clinate and soil adapted to the production of all kiuds of sereals as well as Iruits and flowers，the rose and the cactus，the fig and the alnound tree here flourish；while fields of wheat and barley present to the eys an uabroken surface．With a bracing climate and Italiun skies，giving strength and energy to the enervated frame of man，we cau－ nut cunceive of too extravagant speculations as to the future of California＇s developments．Her allavial and min－ eral wealth seem to be inexhaustable－almost every day we hear of new discoveries of the precious metals－＂Struck it rich＂is the phrise which arouses whole commusities，and sways the multitude as by some mighty magnet，leaving whitening fields ready for the harvest，uncut，whole sette－ ments depopulated，houses to rent or i ir sule at low prices； such sudden outburst，s of splendid prospects，tow often disap－ point the wild adventurer，and too soou he finds that he has torn down what he had cummenced to build on a sure ba－ sis．Califoraia dues not want such a class of men as those； she has enough of these wild adventurou＊speculators al－ ready．She wants men of iron nerve and sinue，with per－ ceptive faculties to know when they are well off，and＂let ＂ell enough alone＂－men who are＂williug to labor and to wait，＂for results which will surely be remunerative to them， by application and patience．To all such，whether they come from the North，the South，the East or the West， California exteads her hands，and lids you welcoate．

## OBITUARY．

We are pained to be called upon to record the death of the Rev．Benjamin Brierly，who departed this life．July 21，1863，in the city of Nevada，Cal．＂Men die，yet their deeds live after them．＂When good men die，society feels the shock．So with California－she has suffered an irrepur－ loss，in the death of Mr Brarrly．The Church has lost a mighty champion for her rights，Vice and Irreligion，an un－ compromising foe ；the poor and despised have lost a friend， and one who would nut stop to enquire＂Of how much sin are you guilty？＂but who was ever ready to relieve the ne－ cessities of others，to the sacrifice of his own comfort and ease．Many thought him too easily deceived in his chari－ ties，but his motto was＂Better be deceived many times than to be mistaken once．＂In religion，he had a clildluke faith．Though he has found a grave on California＇s shure， far from his own native Isle，yet his confidence was in God， and thus neither time nor space could serve to soparate him from His preseace．Who would fear to die，after life＇s work had been so well and laithfully done？
A．Heavy Fald．－The Territorial Enterprise of the 21 st． ult．，is authority for the following ：－
Adam Simpson fell down the shatt of the New York Com pany， 238 feet，night before last，broke his wrist and bruised his head somewhat．Dr．Sharky set the broken bones，and the patient was doing well at last accounts．
Witain the last year over eight million dollars in gold dust has been received at the New York assay office from Pike＇s Peak．

## MIN1N（ネ ANはSUIENTIFIU」RESO

## THE MINING EHARE MARKET．

The activity is the Mining sharo Market for the previous Ire wecks，haz beon more than sestained dering the six yj：ju－t past．The huoy，uncy uf the Markut has allso been articularls noted The lusiness transacted exhibits at wide fuge and erobraces qquite a large scople of leadiag sharen， prese lather have bern well sustained，by reased of flutter accuunts from the mines．
Ilaving beem ahsent from our pust，the past week up to but morniug of pullication，in latek of persoum observation， quase：treely und without further credit，from our co－ imporaries，The Mercantile Guzelle and Sanborse and $C_{U}$＇s uceulur：－
Ophir thures bave been in demand，commencing at $\$ 20000$ fut gradoally improving to $\$ 2,300$ ．I his sudden reeotery in the eluaing lequessed rates of last week，is accounted o by a nuw discuvery off rich ures ens such an extent that ir company uray tus induced to duchare their regular div－ ond on the fith instant．inst ad of omitting it，as wis ats－ fipated．It is anusunced ufficiazly that after September the dividends will tre pail in Nuw Youk，by dinzene

C＇u．，on the sune duy they are paid here，less ex
fiould \＆Curry Shares have been sold at $\$ 5275$ ；at the we sining is offered．
The Mexicun Company are vigorously at wort upor eir new shaft，it having already attained a depth of tifty ft．It is filteen feet long by five wide and will contain er apartunantz，each four feet square．
finacge Shares have adranced to $\$ 3500$ ，on wime．Ar－ frements lave beep completed with three Mills for the Fiking of the ores，and，with ordinary success，a dividend Sis pe fuot may he expected for Augast．Shares are if inactive，but well maintained．
Huld Norcross has advanced $\$ 200$ the past ten days ： 11 is at $p$ esent rery firuls held at $\$ 200$ ；$\$ 23 \% 0$ ，buyer －is bid．This claina is now beins thoruaghly opened，and to dridts win in several directious to extract ore upon a ife scule；a manber of mills are constantly engared in 4／ohing reck from this mine．
hullar Shares are growing more is faver，and new buyers 4 really to pray \＄125d The largest holders are the must alyuine and cannot be persuaded to part wi h their stock thuch higher ratess．
－otusi shares have been freely dealt in，and have readily dmanded $\$ 700$ to $\$ 725$ ，must o：which have bren take Hod holders，ootwithstunding the influence of the adverse \＆of the Griss Valley Cumpang．
Prass Valley is uffered at $\$ 255$ per footr．Very valuable has been found lately（oul ground not in litigation with t）Potosi Cumpany．）giving enplogment to two or three

White \＆Murply Shares have been sowght after at $\$ 550$ ， maut linding much staci－．
fest is Belcher shares have not been offered at less than F 1011 ，and Dick Sides could he sold at $\$ 660$ ，
ierria Nevadu，improved to \＄ile ；at the close very lit tiptock is offering．
Janey Strates have again been largely dealt in．fluctua－ 4）from $\$ 250$ to $\$ 170$ ；at the close they advanced to $\$ 19 \%$ ． Pally in this stock is anticipated at an early day．This dreciation is occasioned，it is said，by the probability of Who being no divideud for the easuing month．Dividends 100 feet，for August，sold at $\$ 1$ to $\$ 1 \%$
－urning Moscow，improved to $\$ 146$ ，and declined to $\$ 120$ ． forth Potosi Shares receded to $\$ 421 \%$ ，a d closed at $47 \%$ ． Hecrue sold at $\$ 26$ ；Lady Bryan reached $\$ 15$ ，and cled at $\$ 12$ ；St．Lousis，in demand at $\$ 31 / 4$ ；Charles C）deelined to $\$ 52$ ，closed at $\$ 61$ ；Meredith，after sell－ ir at $\$ 571 \cong$ ，closed at $\$ 5.51$.
smeralda Shares have attracted more than usual at－ Ition during the past week．Wide West has heen quite laive and Antelope in request．Real del Monte has beeu iriood repute and found buyers at $\$ 225$ ．
ral has improved because of the failure of the suit binght against the Company by the Real del Monto Co I＇re are no transactions in the stock，but it is firmiy held material advance．
tah bas revived somewhat，advancing from $\$ 70$ to $\$ 80$ ． e append a reoord of the leading transactions of the

Wide West， 320 shares sold from Elfis（＂Elko ；Ante－
 Monte， 25 at $\$ 225$ ；Silver Hill， 95 at（a． 36 ；Litah． 25
 27,5 ；Vedersal IIope． 102 at toe to anc ；Red，White and I3lue， 32 at $\$ 10$（ （ $\$ 11$ ；Justephine 127 at $\$ 10$（ 1 （ 81.5 ；Cor su， 20 at 820 ；Willow Sprinus， 345 at 4 （ar 51 ；smubeam， 16 at 82 ；Bnodie Blauf， 75 at $\$ 4$ ；Union，（Kuss 1）istrict） 916 at $\Sigma 31,2(\omega) \& 1,2$.
Himbinde \＆lerese Ruver still contimue to attract inuch aftention．It is stated that seven mills will zoon be in upe－ mation at the fatter locality，from which important develop－ ments may be confidently anticipatid at an early duy．We append such transactions of tho week as have comse to hand： Sheba， $2.50 \mathrm{at} \$ 200$（0）250 ；1）suta， 30 at $\$ 60$ ；Bcese River， 30 at $\$ 1$ 14（a）1！；American Basin， 30 at $\$ 15$ ；Cul edonia Cannel Coo．， 40 at $\$ 46$（ $\$ 18$ ；Crosus， 70 at $\$ 10$ ； st．Charles at \＄13／4．

## COPPER．

Since our Iast we hear of valuable discoveries of Copper in Maripusa，and Merced counties which are very flattering，and the mania fur locating feet unexampled．Fifteen uiles of claims have been staked off shalts bave beed courusenced and work is progressing．
In＇Trinity county prospecting continues and miners are sanguine that rich Cupper miues will soou be develuped．
From Del Norte we hear of profitable workings．The Alta are slipping ore and rapidly developing their lude； 4000 barrels of ore go forward on the Mary L工 sutton to New York．
At Mount Diablo the numerous companies prosp cting their claims coutinue with unabated zeal to turuel，aud sink shafts．
It is estimatell that the Copper mines of Calaveras county will soon uffurd permanent work to thousands of laborers． The Union continues its large yield of slippiag ore，and the tock still uppreciates in value．
The keystone has been hurgely increasing its shipments and extending its working operations．＇lue Calaver＇as and Eropire are also steadily progressing．At Camp seco the mines are doing well．＇ithe Copper Hill is shipping in fair quautities．

The Napoleon has produced this month about 200 tons of ore，and the amount is being increased as room is made un－ derground
The last assay of forty－five tous，was made at an average of 1 17 per cent； 200 tous of ore from this Uompany＂s miuego to New Yurk per the Mary L．Sutton，to sail it a day or two．The main slaft has been sunk 165 feet on a lude of 14 feet in width．
Forty tons of ore from the Celorado have been received as specimens of the yield of that district．

In Butte county several good lodes are beigg opened and Yuba we hear that prospectors are sanguine of success．

Notre．－In this State，we believe，cases of deaf and dumbare not very common，although cises of deafuess alone are so．We personally know many of the latter，where no relief has been obtained under our most skil ful physicians We have，therefore，much pleasure in dalling a tention to the authenticated cases of cure by Dr．De Castro，which appear in our advertising columns to－day．Those visiting the Dr．will find him a perfect gentleman in every respect， free from all quackery，and worthy of all confideace．

Tue Lake Superior Miner states that $\$ 100,000$ of silver obtained annually from the copper mines．

For the information of those of our subscribers who are members of any of the Temperance Divisions of this city，we are requested to state that the next regular meeting of the Golden Gate Division，will be held on Saturday Evening the 8th inst．，instead of Thursday Evening．A full attendance is requested．Their＂paper，＂the＂Golden Gate Journal，＂will be read at 9 o＇clock．

The Nautical Magazine．－Capt．John is outagain with his valuable Magazine．Capt．John has a leen eye to everything that pertains to the Sea，and is as firm as a rock

| then | $\begin{aligned} & 16 \mathrm{E}= \\ & \text { But } \\ & \text { Her the } \end{aligned}$ |  | T Us | ＊ 1 ¢ 1 | DS stouk lots． |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Samen of <br>  |  |  | $\begin{aligned} & \dot{\text { in }} \\ & \text { 亲 } \end{aligned}$ | $\begin{gathered} \text { 雲 } \end{gathered}$ |  | $\begin{aligned} & \text { 离 } \\ & \text { 咅 } \end{aligned}$ |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 514 | 5mu | 2100 | 2100 | 2218 |  |
| Cutrail | 1. aubl | 1：－ |  | － | － |  |  |  |
|  | ：$\because 6$ | 14. |  |  |  |  |  |  |
|  | 6，ove | ＋．．．u | 1usi | 1100 | 11：0 | 1100 | 1150 |  |
| l | －$\times$ cre | ${ }_{2}{ }^{\text {a }}$ |  | 7104 |  |  |  |  |
| Hixlu \＆Serer | Au | － | 2100 | －1．30 | 2200 | 2000 |  |  |
| Not | S，Nut | ＋ $\mathrm{l}_{800}^{800}$ | $\underline{265}$ |  |  | 145 | $71 \%$ |  |
| Burung 3luscuw | t，met | － | 260 | 185 | 120， | 18. | 170 | ${ }_{130}^{150}$ |
| Vorth l＇ulusi | z sne | 1.300 | 46 |  | 10 | 43 | 45 | 46 |
| Rugers，D． |  | － 50 |  | 60 |  |  |  |  |
| Merembly |  | － $1 \because$ | 40 | $\stackrel{60}{ }$ | 5036 | 47312 | 45 | 0 |
|  |  | （ | ${ }^{70}$ | － | 81 | 51 | 85 | 60 80 8 |
| Sucrue | 1.800 | 1 Sul | － | ＝ |  |  |  |  |
| fanly Bryau | 5．uru | 1100 |  |  | － |  |  |  |
|  |  | 1 | 3100 | 3000 |  | 3：00 | $8 \mathrm{CH5}$ | 00 |
|  |  | 1 |  | ${ }^{915}$ | ${ }_{87}^{973}$ |  |  | 30 |
| Norten | 1，600 | 1 － | 5 | 5 | 11： | 8 | 6 |  |
| Ins |  |  |  |  |  |  |  |  |
|  |  | $=$ | ＝ |  |  |  |  |  |
|  | － | － | 12 | 12 | 11 | 113\％ | 11 |  |
| Atrit | － | －－ | 3 | 二 |  |  | 3 |  |
| Cedar Hiill Tunnel | 10，000 | 100 |  | ${ }^{8}$ |  | 3 |  |  |
| Moutu bavilson | 10，000 |  |  |  | 9， | $0 \cdot 6$ |  |  |
| Prithe of the West |  | －－ | 0 |  | 04 | 90 |  | 95 |
| Impur＇al <br> fuarz 3．Co． |  |  |  | 50 |  | 二 | $477$ | 485 |
| Wisle Weat | 2，600 |  | 145 | 148 | 165 | 165 | 166 | 172 |
| Anvelepre | 1．200 | 1.5001 |  |  |  |  |  |  |
| R．mmerilda－ |  |  |  |  |  | 20 | 20 | 20 |
| Rial nel Mouto | 4，400 | 1.400 | 175 |  |  | 150 | 140 | 200 |
| ma | 1，．6u | ${ }_{1} 100$ | 7 |  | 710 |  |  |  |
| silver Bi | 3，400 | － 500 | 25 | ${ }_{25}$ |  | 10 | 60 30 |  |
| Nerialu | 1，200 | －260 | － |  | 171／2 |  |  | 20 |
| Fecheral Hope |  | － | － |  |  | 40 | 500 |  |
| denty Lind | 二 | － | － |  |  | －－ |  |  |
| Fablis or clyde | $-1$ |  | － |  | 3 | 4 |  |  |
| Sutbistno，天．W，ex． Bambex $\qquad$ | 600 | 500 | － |  |  | － |  |  |
| cusin stucrss |  |  |  |  |  |  |  |  |
|  | J．600 | －600 |  |  |  |  |  |  |
| Whllow spriags－ | 2，ivu | 1100 | 4 | 4 | 4／2 | 4／5 | $4 \%$ | 4／8 |
| Empire－．．．． <br>  |  |  |  |  |  |  |  |  |
| Mina Pretar | 2，200 | －1000 | － |  |  |  |  |  |
| СОРमझに STOCFN． |  |  |  |  |  | － |  |  |
| Naplersu－ | 2，700 |  | 45 | 45. | 65 | 10 | $\stackrel{50}{-}$ | 45 |
| CAIDFUIENIA STOCRS． |  |  |  |  |  |  |  |  |
| Lturel hill |  |  |  | $21 / 6$ | $23 / 2$ | 2 | － |  |
| Utica． <br> Rholes Diggings |  |  |  |  |  |  | 12\％ | $\overline{14}$ |

## VIRGINIA CITY STUCK LIST．



| P. M. S. C O. <br> PACIFIC MAILSTAMSHP CoMPANFMS <br>  FOR PANAMA. The following Steamships will bo dispatcined in the |  |  | REYNOLDS, <br> Patent Cut-0ff and Governo FOR STBAM ENGINES. <br> 127 of these Invaluable Machines, In California and Nevala Territory USE Hevada Territory, giving a perf regalar motiou ind |
| :---: | :---: | :---: | :---: |
|  | BRYAN BATTERY. | U NIO N <br> IRON AND bRASS FOUNDRY. <br> (The Fixst Established in the State.) <br> Corner of First and Miscion Streets, San Francisco. |  |
|  |  | H |  |
|  |  |  | Steen's Improved Governor <br>  |
|  |  |  |  |
|  | ALONE STANDING THE TEST. |  |  |
|  | This, with the Impravements which Experience hasuygested, is now regarded, by common consent, as thesuygerted. is. <br> only <br> reliablo |  | Clark'sSteam and Fire Regulator <br> $=2=\mathrm{a}=$ |
|  | METHOD OF CRUSHING ORE. <br> The Bryan Rattrer, an now comrtructed, is believed of combine all the improvements whech the EXCLUSIVELY ADOPTED | QUARTZ CRUSHING BATTERIES, Embracing a great variety of Slamp, Hortar and Cand |  |
|  |  | Pamalgamating machinery, |  |
|  |  | Pans, Amalenprovediug Tubs, Plaisted's Getinders, Wakely Chifle MINING PUMPS. | and any persun can pat one op in an hoar after the da er is lut Ingersoll's Patent Drill Press, |
|  |  | firn ine tirke, with Pipes, Bob Nouting |  |
| Amalgamating and Separating Pans. | byany of the monst prominont oliming Compames in the jected th the most severe of all terts- hhat of constan |  | Felt for steam Boilers, Pipes, Etc. |
| It it ackanowledged by all who have examineed the prin- <br>  | use-and in every case have been pronounced <br> Effective, Substantial and Reliable. |  | Steam Engines, Boilers, Pipes, Hydranlic Pressos, Shafting, Pulleys, Etc., at the lo market rates. |
|  | $\begin{gathered} \text { the } \\ \text { and } \\ \text { and } \\ 5 \times 04 \end{gathered}$ |  |  |
|  |  | $\xrightarrow{\text { Gifards Injectors, }}$ |  |
|  |  | (tor | The Pacific Mrineral Compnay |
|  |  | I. C. E. KLEPZIG \& CO., GUN MAKERS, |  |
| Wm. P. TAAFFEE, <br> INPORTER AND JOBBER OF |  | dealers in gun materials, 733 Washington street, San Francisco, Ono Duor ubowi Kearney strect |  |
|  |  | airing done in a workimanike manter at the fhor tice. | To Mining Companies about to corporate. John armstrong, <br> Conveyancer, <br> 610 Merchant Street |
|  |  | EXCELSIOR GALLERY, G50 Washingtonst. Tharce doors below |  |
|  |  |  |  |
| MACHINE SHOP, <br> 227 Market, corner of Beale Street. |  |  | and all orther Papers |
| 227 Market, corner of Beale Street. WARRANTED FIRE-PROOF SAFES |  |  |  |
| WARRANTED FIRE-PROOF SAFES <br>  | John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co.., Vi, ginja City, Sheha Mining Co.. Humboltd. |  |  |
|  |  | latee size Photogruphs. \$3-Extra conies \$1 each AMBROTYJES in all Styles and Prices. | W. BOHM, |
|  | San Carlos Minint Co... Owen's Riv | OLD PICTURES copied with caro aud accuracy, in anystyle desired, Parthcular attention phid to picturca of sylit desir |  |
|  |  |  |  |
|  |  | Pictures painted in Oil or Water Colors, and retouched in India Ink by a competunt artist. R, H, CORNELK. je22 | Patont Office, has been adjulged to be a ascful imf unment, and f,ettcrs latent have beengranted for 17 atIt exeells all other buekels in |
|  |  | BAUNCHEIDTISM, <br> The Pregerver and Producer of Life. <br> THE EFFECT OF BAUYCHETDTISM AS A METHOD OF |  |
| Miill and Reduction Wor |  |  |  |
|  |  |  |  |
| John Weichhart, All Kinds of Edge Tools, Etton Moulding Trons, $\qquad$ No. 22 Fremont street, het Market and Mission,Francisco, July 14, 1863 . 20 |  |  |  |
|  | GODDARD \& CO., <br> At the Pacific Iron Works. san francisco. <br> os 125 to 136 First strect, and 186 to 144 Firemont street. |  | CALIFORNIA FOUNDR Tremont Street nenr Market, San Francis |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# D ESKS <br> Office $\stackrel{\text { Fiso }}{\text { rurniture }}$ －F ALL KINDS．．．．．．FOR SALE BY <br> JOHN WIGMORE， No． 423 Caliporvia st．，San Francisco． office jobing or all Einde，attended to． 

PALMER，HANSCOM \＆CO．，
GDLDEN STATE IRON WORKS， Wo．10，Pirat street，sun Francisco， arnish Castings and Machinery of all kind Grnuine White Iron Suors and Dies． palmer，Havscomb \＆co．
To Quartz Miners． K．nos＇s Lumponed
AMALGAMATING PAN， ALMER＇S PATENT SIEAM CLEST． Che aboure combinatioun sectrea Tif，host
cumplute andk thatiou of the mecivus netals al





Tha puhble are infurmed that Letcrs Patent have beer



T．©．Sanborn \＆Co． STOCK BROKERS，
No．630，Montgomery Streer．

## 万phir silver hining stock，

gould a curry miving stock， chollar mining stock， californta steam navigatun cos stock，

BOUGHT \＆SOLD．

## DEETKEN＇S

## hemical and Metallurgical Works，

On San Bruno Road，Islais Creek， dan fibancincu．
holin bearng solphurers worked at reas－

 os－dyparatus for sepharulingsiulphurets set Lp by ex


LEWIS COFFEY AND RISDON， HEAM BUILER AND SHEET TRON
Tho only axclusively Boiler Making Establishmeat on
To Pacitic Const Owned and conducted by Practical P位ilic const Owned and conducted by Practical
filer Makers．All orders for New Wurk，the repairing iler makers．All orders for New Work，the repairing
Ol Worts，executed as ordered，and warranted as quulity．
fl Stand，corner Bush and Market Streets． Opposite Orieutal Etotel，San Franciseo，Cal． LLEWIS COFFEY

J．N．RISDON．

## CHEODOR KALLENBERG

Maker of Models FOR INVENTORS．
ACBinES，Matreyatycal，optical and Pbilosoph－
ical Instruments，Scales，weights

## R．W．FISHBOURNE。

PRACTICAI LITHOGRAPHER，

## ENGRAVER AN゚D PRINTER，


 dimpactus．N．B．Ail orders io Cifajou Work promplly MININ．G
N．B．Mintigs Strick Certificates nxecited with promt

## MATTIN \＆CO．g <br> OFFICE $-.2 a 4$ Montgomory Streat，Up stairs， <br> whll contract for the

Purchase of Copper Ores，
Ansayling 8 per cent and upwards or Cappor to tho Ton We will make ADVANCES upon Ores of COPPCR，TIN We will mak
Such will be firsitwher and Freighto
atgumente if desiricil ly the cousignors．
Lenry Martin，
J．F．Grelenana，
 je 1 ．

Tremont House， 418 and 420 ．．．．．Jackson street， A few duars frum 3lontgomery，］Sax Frascisoo，Gal． $T$ HRe FINE，FRRF．PROOF BULIDING OFFERS MANY
 and ．abut the satrue listauce from the priucipal places Amusument
The City Railroad Cars pass the Door，
The House is conducted on Temperance Priaciples， which secures to our guests quiet． The prices for board and Roons are very muderatc－
by the day，meal or week．We solucit A CALL Floss AtL． F．E．WEYGANF，Proprietor． F．E．WEYG ANT，Proprietor．
For the necommodation of my many guests I have ta－ cary wu the tho houses in conneetion，so that Iruvelers wishiug to put up at outher house，may take the Tremont
or linternatiunal Hotel Couch uha be caken to cither Huuse with their bugbige，Frgk．

F：E．WEYGANT．
LEANDER RANSOM，
Civil Engrineer AND
SURVEYOR，
Having been connected with the public works of the Stale of Olio for 20 years，aud the public surveys of the State of California for 7 yeurs． ALSO
state locating agent．
And as such baving the sale of
600,000 ACRES OF STATE SCHOOL LANDS，
At the low price of $\$ 1,95$ por Acre．
Terme－Twenty per cent in cash and the balance on a credit of scyeral yeurs． der ul Montgonery and Culifarninastreels． der of Amentgonery and Catiformia streets．oct 3 m

DR．H．AUSTIN， DENT1ST，
No． 634 Washington street，
Botween Montgomery and Koarny，（over San Francisco I have recently reenived from London a New aud
Beautiful Vulcanite（India Rubber）for Artifcial Teenlt， which is far saporior to any other ever used．It is light cleanly and durable，and of a natural color．The cheap． est and best materiul for temporary（and in many casos） permanent sets．All opera
anll at reasomble pricea．

To Mining Companies，
 lach stroke－soldd iran trame，with heater，pumps，otc．，
all complete The boiler tas 5 Jues，is 24 feet lung， 40 inchos in diameter，made up from the best three－eightu
inch Low Moor Irou and woighs about 5000 prounis Both Eugine and Boiler are in perfect urder and fully suaranteed．Apply to I．H．HAM， $\operatorname{INo} 211$ Clay st．

International Eotel， Jackson Strart，．．．．．．．．San Francisco ［A fow duoors athove Soutgotnery．］ FIRE－PROUF BRICK BUILIING． Hoat convenert tor the
OPEN ALL NIGH＇L
10 City Railroal Cara Pass the Door．
REDUCTION IN PRICES．
Fine Batling Rummatuebud to the Barber Shop． Waran and cold shower Bathe Frue w Guests．
Thorocghly rewovated and newiy fur
 l＇alent spring lsed aut Hair matrexsos．The Internatiol
al ulforn to guests the greatest number and

Best Furnasued Family Rooms；
and ghrs as goon Ataliz an nny Houso in the chey， Iam determued liat the INTHRNAnovat shative thic
 ainn to morit a continuance of the popplatar favar it hat anduyed heretofore．It will be cunducted on Temperauc F．E．WEYGANT，Proprietor．

## John R．Sims，



Oregon strect，between Washington antl Davis and Fron
$\mathrm{M}^{\text {anufucturess of Firo Proor Doors and }}$ Juck son streets，SAn Francisco ligs All uders trum the aterior Oregou，Warhiugtun
＇erritory，Viacouver＇s Island，British Columbiu，or auy mith penmpthes and dispateh．

Mr．Sims Apprectates the Past liberal patrouage of his frlends，aud trusts that he may Por
For the Informition of Strangers bo would say that be feels coufdent that hife exper this const，whelh his superior work，gent to nimost eve ry towa iu thiss stite，Oreguu，also Victoria sud the Sand
wich lslauds，ind to be seen on some of the best build wich lslauds，ind to be seen on some of the best build
ings in sutu Fruueisco，fully attests．A largo ussortmen of second hand stutters for sale at low rates．api3

## NATHANIEL GRAY，

 General Furnishing Undertaker，g41 sacramento sto，Cor．of Welbb，
SAs Fravelvco．

FULTON FOUNDRY \＆IRON WORKS
HINCKLET \＆CO．，
mexufagturrrs on
Steam Engines，
Quartz，Flqur and Saw Mills；Cast Iron
Fronts，for Buildings，Mining Pomps，
and all kinds of Machinery，Etc．， FIRS＇l STREET，
Betwhen Dfarket amd Migelon．．．．．．．．．．．．．San Franclico．
＊＊＊All kinds of Iron and Brass Castives Purnished at short notice．Every style of Finsuing to Irou whon
thepairing of Machinery neatly done． Pattern Makisg in all its various forms．Prices low． D．B．Hinchley．War，E．Worth．WM．A．Fizld．

## W．T．\＆J，GARRATT，

Gity Brass and Bell Founders
Cor．First \＆Market sts．，San Francisco
$\mathrm{B}^{\text {ABEET METAL CASTINGS，EIRE ENGINES，FORC }}$ and Lift Pumps，Cuurch and steamboat Bells，Tave Bra min Hand Bells aud Gougs，Hose and all other joints Gauge cocks，Cylinder cocks，Oil Globeas，Stearm Whistles
HYORAULIC PITES aut NOZZI．ES Sor MINNN PUR
 att＇s Patent Improved Jourual Setal．

## SQUARZA：S PUNCH．

FIRST PREMIUM
The sacramento agriculiural state fair

## FOR 1862.

## ALSO；FIRST PREDIUM

the Sad Francisco Bay District Agricultural Fair， 1862
Mangationy，whonesals nd retal
No． 44 Leidsdorit street
Opposite the What Cheer House，San Francilaco．

## San Francisco Machine

## IRON WORKS！

## Northemet conner Fromomt and Mision Streald．



 te，exc，and castitigN of all descrinismas made to order． stem kioglaes exchanged and for kale by REPAILING promptly allesuded tu． FOR SALE．
One Upright Post Drill，Putasa＇s manufacture，Al－ Siat Froucixco，July， 1853

Jel3

## 50 lbs．MARTNE and

Fire－Proof Paint，
Manufacturbi by the pacific metallubgical rom ground Miueral Ruck coutnins Arnenic，Copper， 1 A tharge and six other Minerals．When uned ou the frecks or Buttoms of sibpe，it is equal to a coat of stote，and cheaper thau any other paiut．

## DIRECTIONS ：

For Deeks of Ships，use 2 wo parta Mineral Paint，one brer head，mixwilh siaseed（0il．
 Tar and apply For sale by allShip Chandlera and Tradoamen，in boxe of 50 lbs ．each，or by the Paciह̂c Jletallurgieal Works．

25 POUNDS FIRE－PROON PAINT．
When used on Ronfs，Buildinga，or Fences，it is equs to coverlug theis with a cont of Stone，being perfectily DIRECTIONS：
HOUSE ：－Mix three parts Minerul Paint with one part White lead，thiu with Liuseed oil：if a liglter color is wanted，mix lens paint，moro lead． RUOF：－Five pa te of Mineral Paint，one part white
Lead；six with Liusuedl oil．Put in thick ou a tin Rood as ohe coat when properly applied will last three yeara．
G．T．Fouque，Superintendent．C．BRADsiHAW，Agt．，

ramento st．，San Francigco．

## WRIGHT＇S PICKS．

JOHN WRIGHT，of Sacramento，has establisped ham－ self in Sau＇ranciscu，for tho manufacture of every description of PICKS，of the best material，at reduced prices．Pick Eres of the bestiron furnisbed in any quan lity，at low rates Orders from the country promptly attended to．N．B．－Noue genuine ulless stamped with my name．JOHN WRIGBT， 511 Market street， Opposite Battery，San Francisco．

## WANTED，

CUTTING JEWELRY，
By FRONTIER A．DETIERCY，
13 ap
487 Pine atreet，San Francisco．

FREDERICK MANSELL，
hechanical \＆architecturai．
DRAUGHTSMAN ，
No．432 California street，corner of Lelldsdorff
Drawings of Mopzzs made fort！parties applying for pat－
ents at Washiugtou or Londou．
mar23 2in ents at Washiugtoll or London．

HAYNES \＆LAWTON，
mporters and dealers in
CROCKERY， GLASS WARE，
FRENCH CHINA， Coal Oil Lamps，Table Cutlery CIOCKS，
Silver Plated and Britania Ware， ETC．，ETC．，ETC．
NO． 516 SANSOME STREET
［CORNER OF MERCEAANT，］
Sam Francisoo．


## Offices To Let,

 Olices, the most cominodinus und eccessible in the city. Eye, Ear and Throat.

## DR. DE CASTRO, Oculist and Aurist,

WHO HAS PRACTXSED IN NETV guela urrivalled suecess, und from cach place is in possession of the most cminent testimonials, may now be con-
sulted upon diseasca of these delicate organs, with a view suted upon diseascos of these delicate organs, with a view to their permanent cure. Deafners of loug standing tho-
roughly cured. The Deetur employs his (by the Medical Society of Loudno fpuroved)

## Self-acjusting Artificial Tympanum,

For the relief of deafness, antended by los or injury of the membrana yymani, mind fir the cure of discharge
from the car-the invention of Do Castro, aI, D. author of "Denfness Practically Illustrated as to its Nature and Treatment," Ptc, The self-adjusting Artificial Tympanum was first introduced to the notice of the professinn at the mepting of the
Meflieal Society of Londnu, on the 20th of N'ovenuber, M863. An animated discussion ensued on tbe reading of the paper, and sereral members of the Snciety borc testimony to the success af the remedy and the mportanee of
the original discovery. the original discovery.
Adiustiug Artificial Tympanum, as he had observed the immenso bentit a young hady fricnd of his has received from it. She was in fact, quite deaf, aud in a most mis-
erable state; the effect of the ty rapanum was instantaneerable state; the effect of the tyrapanum was instantane-
ous-quite like a miracle. Five more costimonials frum Members of the MedicalCollege, New York, and the priacipal cities of Europe.
Operating Rooms, UNION BLOCK, corner of Market and Kearny streets. Eutranco on Market street.
H3, Mr. Editor-Having been afflicted With deafness fir the last two yoars, originating from a most excrutiating pains in niy eirr, I was obliged to come dowa to San Frameisen to seetr relief. Arter a plysician's. recomendatinn to wait on Dr. De Castro, on the corner of
Kearny and Market streets, and underwent one operation. Kearny and Market streets, and anderwent one operation.
and it is with the atmost ploasure I cau suy my hearing and it is with the atmost ploasure I cam say my hearing
was suddenly and withrut painentirely restored. I deen it my duty to make this krown to the bublic, and to recommend Dr. Do Castro's skill as an aurist. JOMN REESE, Napa Vally. James Callaghan, witness,
San Francisco, July 30 th, 1868
[From the Daily Alta.]

En'rs Daily Auta. san Fraucieco, June 30th., 1863.
Pormit me through your widely circulated jmirnal. to say, that ry daughter Mary Ellen, has been aflicted with deafuess since she rras thirtren montha old, and that she
has been a member of the Deaf and Dumb Institute since has been a member of the Deaf and Dumb Institute since
it was nrganized. On takiog her to Dr. De Castro, nit the it was nrganized. On taking her to Dr . De Castro, nin the
corner of Kearney and Market Surcets, and undergoing uncorner of kearney and Marketsirects, and undergoing un-
der his direction, two operations, she lass heard sounds very distinctly, and is now, Iam happy to stato in a fair Way to get permanent relief. The result, thus far, is sat-
isfactory; and I deem this notice due to Dr. De Castro for isfactory; and I deem this notice due to Dr. De Castro for
his skill ; and would recommend all narties similarly afhis skill; and wnuld recommead all narties similarly af-
ficted to give him a trial My daughter has at different times been under the care nt the woost stilful plyssicians and aurists in California, but up to the period of visiting
Dr. De Castro, received un lienefit. Dr. De Castro, received un henefit.

$$
\begin{aligned}
& \text { CHAS JOEN P. WRJGHT, } \\
& \text { 812 Green Street, }
\end{aligned}
$$

## IIINING CERTIFICATE LOST!

Certifite for Ten Shares, No. 33, dated July
8th., 8663 , of Tampilpius Gnld and Silyer Mining Company. 8th, i863, of Tamilpius Gnld and Silyer Mining Company, The finder will be suitably rewarded by leaving it at
room 24 . Government Block.

## CEARLES GEDDES,

 ARCHITECT,Cor. Montgomery and Bush Streets, Ovor the Mercantile Library Rooms.
H. C. KIBBE, Conamissioner for Nevada Territory, 542 sacramento st., cor. Montgonery (ABMORY MALK.)

EXCELSIOR IRON WORKS,
Between Sacksou and Yacitic, San Francisco, GALLAGHER \& KENNEY, Maunfacturers of al binds of Architectural and Ornameatal Iron Work Bank ahd store valts, ciafir, Boms, whuters, Bath-
cony, Areal and Cemc.ery Rallings, Gates, Stairs,
Etc, aud all kinds of flacksmithing
Etc. atel ill kinds of Blacksmithing annl Job
bing done with prompluess,
bing done with promptuess, and
Orders trom the country promptly attended to. je13

APARTMENTS.
 shington strest. Percous desiruas of a respectahl bome will do well to apply

## E. C. DAKE,

 deater mnCLOTHING, AND
Gentlemen's Furnishing Goods; also

HATS, CAPS, ETC.
At the New York Chothing Store, $541 \& 543$ Washington st. Monts'my B1k je] Old No. 145.
E. T. PEASE, R.S.CORNING, SAM'LC. BOWLEY

PEASE, BOWLEY \& CO.,
Real Estate, Stook and Exchange
BROKERS,
621 Montgomery street, San Franelseo.
Legal Tender Notrs and Minina Stocks, BOUGHT \& SOLD.
je-29

## P U M P S !

HARRISON'S
California Lift and Force Pump,
without ralves or packing,
Snitable for Miucs. Fire Engives, Wrecking or Irrigatng.
nud teass hable to gel out of order, of any Pump yet in-
vented. vented,

ALI. SIZES;
Capabte of throwing from one hunneed to FIVE
THOUSAND Gallons per Minut-For sile by
C. H. HARRISON,

Phœenix Or Works,
Je-15 517 Front Strect, San Francisco,

## New Bedford Copper Company.

$T$ Ae ondergigyen havivg been appointed
Tugents for the above Compuauy, are receiving reg
Sheathing Copper;
Brazier's Copprer;
Coprrr Bolts;
Yellow Seenthing Metal;
Coprer and Compostrion Nails;
Whach they ofer to the Trade at the lowest marke
rate, sud un lue most fiverabicie te. mos. je-29 Lic Mos Moreans sTone \& CG je-29

Napoleon Copper IVining Company
Capitaf stock......................91,6』0,000.
thy00 Shares-- $\$ 500$ Per Share.
Length of Lead $\mathbf{z , 7} \mathbf{z o u}$ Feet ; Jacation of Mine, Geyher Dissriet, Galavernas chuity; Iucorporaten
Oetober 3,1802 .

## President Secretary Tine

F. Marckitink

Tro surer
. RICHARD FUWNING
F, MACCESMLSH, TRUSTEES.

A, J. Mow ne k, of A. J. Nombler \& Cu-
J. C. JHASPAN, of Bumeran \& Co


W. L. IUNCAN. Secretary California Pioneers. Office of Company, No. 420 Montgomery street.

San Antonio Gold and Silver Mizes, bower california,
FORWARDING \& IINING AGENCY, SAMUEL SMYTH,
OFFICE-Worth West Cofaer of Front and Clay
MINING WACHINERY AND RERCRANDISE FORrevient Agene at San Antouns, find informating furrevident Agent at san Antonn, hot mormanm fur-
nishedr regaroung any claim., in that Territory, on Con-
mision. mis_ion.

## FOR SALE.

Patent prewed russia iron muntag fans,
Russia fran Quartz Screvens for Mills;
Portable

Ribu Corks: Copp
Rihb Corks: Couplingem Play Pines; Cowking Stoves and Heaing Stoves ${ }^{\gamma}{ }^{2}$ Thu Plate: Shent Iron; Sheet Coppor ;
Fruit Cans of Varimas Kinds; Lard and Butter Cimat of all Sizer;
Iron Wire ; Bront Wire ; Copper Wire
Copper Rivets and burrs; Iron Rivets; Copper Rivets and Eusre; Iron Rivets ; Etc.
We are also manufitelurers of the
UNEQUALLED
IONITOR COOKING STOVE
OR RANGE,
For Hotels.

MOYNIHAN \& AITKEN,
Boiler Makers aud Blacksmiths,
Mission, between Beal \& Fremont Sts, Sau Franciseo.
N. B, All kinds of Boiler and Sheet Tron Work executed ut the shortest notice, and ou the must reasonable terms.

## L. F. LELAND, <br> STOCK BROKER,

No. 621 Clay street,
Ofice Hours, 10 to 11, A. M.; $2 \frac{3}{2}$ to $3 \frac{1}{2}, \mathrm{P}$. . Mr .
Member of the San Fracisco Stock and Exchange Board

## je-29

MYERS \& DAGGETT'S
Mining and stock Exchanges
No. 28 多 B street, Virginia City, N.T.
Mining Stocks of All Einds Bought Sold. Businers connected with Miniug Stocks of every description promptly and confidentially utteaded to. *** Abstracts of Titles Furnished, Etc.

## AGENCY

For the Purchase and Sale of
mexican mining stocks
At No, 411 Clay Strect, San Francisco,
FFICE OF THE PENA AND LA MARRONENA SIL
ver Miuing Companics, Sall Atlonio District, Lower California.

## the ahove raiues. <br> the ahove malues.

ASSAYS!
Fromptress and Accuracy Secure
By the Use of the Most Iafproved Metrods of
A N A L Y SIS:
Adwantageons 'Terms for Prospector's Clut
and Mining Companies.

## J. H. CHURCHILL, III. A,

> (FROM ECRODE,

Room 24 Government Block, sorne5 of Sansome

## A. C. MORSE,

Miniag and Real Estate Agent, Orficr-S. W. corner Pbe and Silver ats., Aurora,

## Having made ariangenema

tock Brokers of sau Framciker). I am prepareal to $B 1$ hit FiLL, carng description of Mming stoeks iu kim

## Miners' Foundry

## MACHINE WORKs <br> Firrastr, between Howard \& Fotionm

SAN Fraxciscu.

Fivery nesertptos op tron and brass mac
 in the state of Calioruia, will be furnisherli mith
patch at the sliners' Foundry alld Maskine Works, as Steam Finginer nnd Bnilers, Flour, Saw ant Qun,
mill machinery, Minfug Pumps, Amalgumatnrs, Retol Ete.y
Particular attention will be given to the mannufact, of Suchinery in Sections, deeigned for places of clime

bitinn. Parties desiring to test their ores practically, momall quantities will be afforded ample facilities, frces
cost. cost.
All martics desiring fccurate and bigluly finished dris Inge and Supariar Machincry, at most renentable y HOWI.AND, ANGFL \& JING, New Patent Agenc.

W Pave convected with Tri
The Patent Agency Business, And would invite Inventors and Mifenverere on the
cific coust, who wish Dieprich us well as konnme to
 ton, which, tnepther with our own exporience of so

Miniug and Selentific Press Ageney The most lecirnhle place to make apnli
Patent on the Pacifeconat. Anply at

No. 27, Federal "uibinge, corner of Ratterr alld w | ington streets, (directly opposite tbr Posi omice.) |
| :--- |
| Franciseo. |
| FWER \& SMIT |

FOREIGN PATENTS OBTAINE] By application at this offlee, Ronm 27. Fefleral Buith EWER \& SMITH, Solicitor

NOTICE TO INVENTORS.


PATENT RIGHTS.
Patent Rights Bowght and Sold. At the offce of the "Mlining and Scienlifi Press" Apr
EWER \& SMIT

IMPORTANT TO INVENTORS.
Invontors who nbtain their Patents through this (:
ean have their Inventions illistratell and describe ean have their inventions illistratel and reseribu
the columns of this paper Fseze of chargo, they mi furnikhing the engravinge. We arealso prepared th niah engravings at rensmathle rates. Thnee whu d care to gn to the expense of having engravings prel can have their inventinns fally noticca and describu
our columns, fref of clinge. The free ase of ourr our columns, frep of charge. Shat to aid them in introlucing thetr inventinnel public will be found a mosh important arfantage i ventors.


# VOL. VI. SAN FRANCISCO, MONDAY EVENING, ALGUST 10. 1863. NO. 41. 

## LIST OF INCORPORATED MINING COMPANIES,

giving the names of phe companies, names of secretarifs, localities of mines and offiees.

amu, Gold and Silver, Silver City, J F Pupe, 115 California street. telope, Silver, Fismeraldis District, is Putte, j22 Montgomery street. hambra Mining Co., Devil's diate District, $J 0$ Stranch, 815 Samsume street. ens, Gold and Silver, Esiseralda District. Win Winchester, Aurura, Muno Co. nie Laurie, gold and silver, IIumbolt District, J H Gager, Merchant, cor. Montg'y. riatic, gold and silver. Flowery District, S B Rooney, 8 Government House. bany, gold aud silver, Slate Ringe District, A H Clark, 522 Muntgomery street. ferican, gold and silver, Virginiil District, R L Taylor, 48 Metropolitan Block. deade, Esmeralda District, P B Oppenhiem, Aurora, Mono Co.
en, Virginia District, R Rising, Virginia City.
dany East, gold and silver, Slate Rauge District, W H Clark, 224 Montgomery street. dion. gold and silver, Slate Range District, WH Clark, 224 Montgomery street. mania, silver, San Antonia. L. C., L Landsberger, 519 Montgomery street. delope Spur, silver, Esmeralda Listrict, T L Bibbins, 305 Montgomery street. jagosa, silver, Salt Spring District, J A Rawsom, Athenæum Building. Lqusta, silver, Caluvaras Oo.,
Atin, silver. Esmeralda District, R O Sturtevant, 428 Montgomery street.
ehapolitan Con, silver, Esmeralda District, C E Buckingham, 607 Clay street. Aerican Pioneer, silver, Ls Paz, New Muxico, G W Blake, 224 Montgomery street. A land, silver, Virginia District, Thas. Brownjohn, 621 Clay street.
da, silver, Silver City, L D Ingoldsby, 80 Merchant street.
Alioch, copper.
Atic, gold and silver, Fsmeralda District, T L Bibbins, 305 Montgomery street.
A traz, silver, Reese River District, A. S Gould, 528 Clay street.
Ale Faia Mining Co.
Akal, gold and silver.
tonia Mining Co. S T Polk, 56 Lyceum Bui!ding.
Ap Smith Mining Co. R 'T Pulk, 67 Lyceam Building.
Arican Freeman, gold and silver, Thos. Hill, Pioneer Building.
as Calientes, gold and silver.
Arrican, gold and silver, Star District, W H Martin, 617 Clay street. AJzon Tunnel Co.
Mrican, gold and silver.
Auna, silver and copper, La Paz, Thos. Brownjohn, 621 Clay street.
Afr, gold and silver, Gold Hill, E C Lovell. 436 Jackson street.
Antic, zold and silver, Pacific Ledge, L F Yutes, Virginia City.
a. gold and silver.

Intoro Mining Co.
gold and silver, Coso District, V B Post, Lucas \& Turner's Building.
a, gold and silver
Baltimore, gold and silver, J Crocker, 413 Montgomery street.
gold and silver, Esmeralda District, L D Iugoldiby, 80 Merchant street.
ati, gold and silver,
raz, gold and silver
it gold and silver, Mogul Mining District, M. L. McDonald, 34 Metropolitan Block. ope Con. Ex. M. Co. Del Norte county,
a, gold and silver, Pruire District, Ei Do. Co., D.F Verdenal, 636 Clay street.
gold and silver, Contra Costa County.
ty West, gold und silver, Slate Range.
peda Coal Mining Co, Alameda Cornty, L Franconi, Lucas \& Turner's Building. , gold and silver, Esmeralda District; I N Choynsky, Esmeralda.
9, gold and rilver, Flowry District, 'I' Brownjohn, 6 '2l Clay street.
can Earle, gold und silver, Excelsior Distriet, Wm E Garvy, 619 Merchant street. fie, gold and ilver, Monitor District, T J Owens, 1 Armory Hall.
: gold and silver, Echo Dis!. Humboldt Co., Ferdinand Vassault, 4 Barron Building. ala Silver Mining co. Heury Van Pelt, 436 Montgomery street.
mivis, silver, Durango öistrict, Thomas Hill, Pioneer Building, Montgomery street.
Fe, gold and silver, Silver City, F S Cnrter, 415 Samsome street.
ng Moscow, silver, Virginia Distirct, J P. Nourse, cor. Montg'y and Jackson streets. nis, ef \& s, Devil,s Gate District, R N Van Brunt, 706 Montgomery street.
, g \& 8 , Devil's Gate district, J H Purkitt, 40 Metropolitan Building.

[^6]Blue Ledge Lovell, silver,
Baltic Con., gold and silrer, Smoky Valley, N. T.
Barber, gold and silver, Thos. Browajoha, 621 Clay street.
Black Mountain, copper,
Ben Franklin, gold and silver, Humboldt District, Jas Herrick, 606 Montgomery street. Buena Vista Minidg Co.
Big Canon, gold and silver, F W Gross, 436 Jackson street.
Barreteros Mining Co. Sinaloa, Mexico, F Vaussalt, 4 Bolton \& Barron's Bldg.
Black Hawk, gold and silver, Silver Hill, Thos. MeCallan, 622 Clay street.
Bonita, silver, F W Gross, 436 Jackson street.
Blanding, gold and silver, Virginia District, Henry Toomy, 402 Montgomery street.
Bay Copper, gold and silver, Clayton D. Con. Cos. S F Gilmore, 30 Moutgomery stree
Boston havine, gold and silver,
Blue Comet, gold and silver,
Bexar Mioing Co.
Rurlington, gold and silver, Esmeralda District, J F Sterling, 33 Montgomery Block.
Blue Ledge, $g$ \& s, Kelsey district, I D Iugoldsby, 89 Merchant street

Central, silver, Virginia District G B McAneny, 712 Montgomery street.
California, silver, Tirgiuia District, D W Young N E corner Montgomery and Jackson.
Carson River, gold and silver,
Cole, silver, Virginia District, W E Wood, 123 California street.
Cedar Hill Tunnel M Co. C L Farrington, 509 Sacramento street
Copper and Silver City, gold and silver, Silver City, E H Platt, Virginia City.
Chenango Mining Co. W E Dean, 53 Montgomery Block.
Con. Silver Hill, gold and silver. Esmeralda District. s Pattee, 522 Montgomery street.
Crown Point, gold and silver, Gold Hill District, J H Jones, 321 Frout street.
Chas Cany Mining Co. Devil's Gate District, Gomer Evans, 338 Montgomery street.
Combination, gold and silver, Telescope District, David Wilder, 522 Montgonery street
Consumes Mining Co. Sacramento Co. - Daylur's Ranch.
Carbon Hill, Mining Co. Virgınia District, -- Aurura, Mono Co.
Cape, silver, Esmeralda District, H S Sanders Aurora. Mono Co.
Crescent, gold and silver, Van Horn Dis. J S Luty, 305 Montgemery street.
Corcoran, gold and silver Esmeralda District, J W ondthorpe, 326 Clay street.
Carrie Bell, gold and silver, Esmerald District, W L Duncan, Pioneer Hall.
Cedar, gold and silver, Esmeralda District, T L Bibbins, 305 Montgomery street.
Cook, gold and silver, Esmeralda District, T L Bibbins, $30 \overline{5}$ Montgomery street.
Cocheco Mining Co. Humboldt District, $\overline{\text { K B Mulville, } 606 \text { Monteromery street. }}$
Caledonia, gold and silver, Gold Hill District, W B A gard, 412 Front street.
Chrysopolis, gold and silver, Virginia Distriet, H Toomey, cor. Montg. and California.
Colorado gold and silver, La Paz, N M. R E Raimond, Sis Front street.
Cataraugus, gold and silver, Slate Range District, A H Clark, 522 Montgomery street.
Clear Creek, silver, Washoe \& Eagle District, C'Stevens, 6 Parrott's Building.
Chrysopolis, silver, Mono County, J H Gager, Montgomery Block.
Collins, gold and silver, Esmeralda District,
Concert, gold and silver, Esmeralda District, Thomas Brownjohn, 621 Clay street.
Cayuga Mining Co. Slate Range District, G J Turner, 606 Montgomery street.
Crosus, gold and silver, Eagle \& Washoe district, J P Nourse, Lucas \& 'Iurner's Building.
Christiana, gold and silver, Esmeralda district, J H Purkitt, Metropolitan Block,
Chicago, gold and silver, Esmeralda district, J Woodthorp, 326 Clay street.
Corinthian, gold and silver, Esmeralda district. J H Purkitt, Metropolitan block.
Colusa, gold and silver, Prince Ropal district, M ( 4 - Plmore, 528 Montgomery street.
Cedar, gold and silver, Esmeralda district, T L Bibbins, 305 Montgomery street.
Clemens, gold and silver, Esmeralda district, C E Buckingham, 607 Clay street.
Combination, gold and silver, Telescope district' David Wilder, 522 Montgomery street.
Chicago, gold and silver, Silver Mountain district.
Cassandra, gold and silver, Esmeralda district.
Comet, gold and silver, Russ district, D Wilder, 522 Montgomery street.
Congress, gold and silver, Slate Range district, W W Lawton, 400 Montgomery street
Comstock, gold and silver,
Camille, gold and silver,
Coffee, gold and silver,
Constellation, gold and silver, Humboldt district, V B Post, Lucas \& Turner's Building Casket, gold and silver,
Cleopatra, gold and silver, Wm H Watson, 607 Clay street.
Carico, silver, Reese River district, AS Gould, 528 Clay street.
Cassius, gold and silver, Buena Vista distrist, F R Jenkins, 80 Merchant street.
Cloud, gold and silver,
Caledona Tunnel, M Co. Gold Hill District, S B Roney, Government House.
Columbia Mining Co.
Chilon, gold and silver, T B Robinson, 896 Front street.
Commonwealth, gold and silver,
Charles Cany Mining Co.
Carlton, silver and copper, Weaver District, C T, G J Turner, 606 Montgomery street.
Celestia, silver and copper, Weaver District, C T, G J T'urner, 606 Montgomery street
Chimney Rock, gold and s,
Curtis Mining Co. Reese River District, M R Wallis, 15 Metropolitan Block.
Converse \& Munckton 'T O,
Converse \& Munckton T. O,
Cortez, gold and silver, minig co, Cor. dis, $\mathbf{R}$ N Van Brunt, 606 Mont
Congress, silver,
Commerce, silver
Cosmopolitan, gold and silver, Monitor district. Am Co. T J Owens, 1 Armory Hall. Capital, gold and silver, Reese River distr.ct, M L McDonald, $3 \pm$ Metropolitan Block. Caycroft, gold and silver,
Croesus, guld and silver, Ormsby Connty, J H Gager, corner Montgomery and Merchant Carson, silver,
Consolation, gold and silver, A. H Griswold, Virginia City.
Campton, gold and silver,
Copp,
Carr Tunnel Co.
Camp \& MeNulty M Co.
Carolita, gold and silver,
Crown Point Ravine, gold and silver, Mariposa County, J W Gould, 406 Montgomery st.
Cosette, silver and copper, L Franconi, Lucas \& Turner's Building.
Contra Costa, silver \& copper,
Cayuga, gold, silver and copper, Van Horn District, C W Curtis, 606 Montgomey street. Chihuabua Mining Co,
Comet, gold and silver,
Constitution, gold and and silver, Lander County, N T, J C Ford, 607 Washington street. Croesus, gold and silver.
Cobre Rica Mining Co. Weaver district,

Cambridge, silver, F W Gross, 436 Jacksou_street.
Cabezon Miniug Co.
Cre cent, copper,
Cumberland Cousolidated, gold and s lver,
Cuba, gold and silver, Humboldt district, E Flanagan, 8 Naglee's Building.
Crossus, silver and copper, WI Dorado Canon,
Capiapo, silver, W P Dewey, ci rner Clay and Montgomery street.
Constantia Minining Co. Humboldt district, JH Gager, Moutgomery B'ock.
Copper Hill Mining Co. Soledad district, Los Angeles, E Barry, 636 Sacraraento street. Crown Lead, gold, silver and copper, Mariposa, County, John W Gould, 406 Montg. st. Cinco Senores, gold and silver, Sinaloa, Mexico,
Chnyno, gold and silver, Esmeralda distrief, D S Levy, Esimeralda.
Cincinnati, silver, Reese River district, P B Cornwall, 608 Merchant street.
Camanche, gold and silver, Sugar Pine district, A S Gould, 528 Clay street. Uash, gold and and silver, Palnyra district, A L. Chamberlin, 413 Montgomery street. Consolacion, silver, Durango, Mexico, M Hawkins, 403 Pine street.
Codicia Silver Mining Co. Henry Van Pelt, 436 Jackson street.
Carrazalita Silver Mining co. Henry Van Pelt, 436 Jackson street. Clio, gold and silver, Tuolumne Co. J F Pope, 113 California street.
Central Ameican, g \& s, Gold Hill district, Z I Pool, 539 Washington street.
Chollar. silver, Virginia District W E Dean, 53 Montgomery Block.
Coso, silver, Coso District, D W Chambers, 11 Court Block.
Coso, silver, Coso District, $D$ W Chambers, 11 Court Block.
Chrystal, $g$ \& , Silver mountain district, J L Pool, 540 Washington street.
Chicago and Detroit Consolidated, $\mathrm{g} \& 8$, Monitor dis., H Dreschfield, 23 Nagles bld.
Desert Mining Co. Flowery District, D Wilder, 522 Montgomery street.
Daney, gold and silver, Devil's Gate District, A De Senailhac, Govervment House. Dios Padre, gold and silver, Sonora, Mexico, J 'I' Nesmith, 502 Montgomery street. Doyle, gold and silver, Fsmeralda district, J W oodthorpe, 326 Clay str et
De Soto. gold and silver, Star district, R C Page, 428 Montgomery street.
Danube, gold aud silver, Esmerulda district, 3 II Purkitt, 40 Metropolitan Building. Dane, gold and silver, Esmeralda district, J R Beard, 4 Amory Hall.
Davis Consolidation, gold and silver, Eismeralda dist. C E Buckingham, Aurora, Mono, Cr Dimes No 2. gold a d silver, Esmeralda district, J Armstrong, 610 Merchant street. Delaware, Virginia district, Esmeralda
Detroit, gold and silver, Humbold district, V B Post, Lacas \& Turner's Building. Dayton, gold aud silver, W H Watson, 607 Clay street. Donophan, gold and silver,
Deposit, gold and silver, R Clark, 422 Montgomery street.
Del Monte Cross Cunsolidation, gold and silver,
Dell, gold and silver, Joha Fowler, corner Clay and Battery.
Del Rey, silver, Devil's Gate Dıstriet, Dovid Wilder, 522 Montgomery street. Dannebroge, gold quartz, Yuba County, C L Farrington, 528 Clay street. Don Pedro gold and silver, Esmeralda district, J H Purkitt, Metropolitn block. Duna Carolina, gold and silver,
Dashaway, gold and silver, J T Miller, 527 Montgomery street.
Delta, gold aud silver, Esmeralda district, P B Corıwall, 608 Merchant streut.
Dixon, gold and silver, Table Mountailu district, E Flanagan, 8 Naglee's Building.
Douglas and Fillmore Con. gold and silver, San Francisco district, W Hollis, 410 Mont.
Esmeralda, silver, Esmeralda district, S Pattee, 522 Montgomery street.
Esmeralda, 1st Extension N M Co. Esmeralda district, SP Pattee. 522 Montgomery stree Eastern Slope Mill \& M Co. Silver City, J J Cushing, 727 Clay street.
Excelsior Mill \& M Co. Silver City, --Silver City.
Early Dawn, gold and silver, Devil's Gate district, J H Brewer, 40 Montgomery street.
Estrick, gold and silver, Esmera'da distsict, T L Bibbins, 305 Montgomery street.
Emmett, Gen. gold and silver, Esmeralda district, Joha Woodihorpe, 326 Clay street.
El Dorado, gold and silver, Virginia district, Henry 'Loomey, corner Montgomery and C
Everett, gold and silver, Humboldt district, J H Gager, Montgomery Block.
Empire, gold and silver, Silver City, B P Ridgway, Metropoliton Hotel.
Empire, gold and silver, Esmeralda district, © H Wakelee, 612 Merchant street.
Eltesoro, gold and silver, Lower California, H E Kibbe, 542 Sacramento street.
Eagle Mining Company, J C Hoyt, N W corner Montgomery and Commercial. Emma, gold and silver, Dayton, Lyon Co. - - Dayton, Lyon Oo.
Estrel.a. Del Monte, gold and silver, Humboldt disirict, J H Gager, Merchant street. Esmeralda, gold and silver, Buena Vista, H Co. J S Laty, 305 Montgomery street. East Antelope, gold and silver, Silver Hill district, J H Blood, 7 Montgomery Block. Empire Mill and Mining Co Gold Bill district, G R Spinney, Metropolitan Block. Electrical, gold and silver, Esmeralda district, E Worth, 547 Washington street. Empire, gold and silver,
Excelsior, copper,
Enterprise, copper, Placer County, M G Elmore, 528 Montgomery street.
Echo, gold and silver,
Eil Paso, gold and silver, Esmeralda district, J T Sterling, 33 Montgomery Block. Lismeralda Spur, golu and silver, Esmeralda district, C W Curtis, G06 Montgomery str Ethan Allen gold and silver, Reese River district, M L McDonald, 34 Metropolitan Blir Evangeline, gold and silver, Gold Hill district, N E Grimes, 4 and 5 Government Hoin Excelsior, gold and silver, EI Dorado district, N T. J L Pool, 540 Washington street. Eastern (front lead) M Co. Virginia district, J S Davis, 18 Montgomery Block. Evoca Consolidation, copper, Del Norte district, E Barry, 636 Sacramento street. El 'ligre a Colorado, gold and silver, Durango, Mexico, C L Farrington, 528 Clay stree 1. nterprise, gold and silver, El Dorado Canon, R Clark, Lyceum Building.

Exchange, copper, Del Norte county, H. S Dalliba, 604 Montgomery street.
Falls of Clyde, gold and silver, Esmeralda district, W L Duncan, Pinoeer Hall. Flowery Mill Co. Flowery district, James Peck, 707 Sansome street.
Foundation $M$ and Irust Co. Esmeralda district, A Davidson, Oakland, Alameda Cou $\bar{\gamma}$ Franco-Americana, gold and silver, San Antonio, L C, A S Gould, 528 Olay street. Flyaway, gold and silver, Esmeralda district, P B Oppenheimer, Aurora, Mono County Federal Union, gold and siiver, Esmeralda district,
Fulton, gold and silver, Esmeralda district, J H Blood, 7 Montgomery Block.
Francis, gold and silver, Slate Range district,
Federal Union, gold and silver, Esmeralda district, J T Baily, 605 Sacramento street.
Franklin Tunnel Mimny Co. Esmeralda district, P B Cornwall, 608 Merchant street.
Frankfort, Esmeralda district, Jno M Burnett, 605 Montoomery street.
Francis lst S E Extension, gold and silver, Slate Range district, A FI Clark, 522 Mont st
Filmore, gold and silver, Slate Range district, W W Lawton, 400 Montgomery street. Federal Hope Consolidation, gold and silver,
Fort Pitt, gold and silver,
Foundry, gold and silver, W W Wiggins, 608 Montgomery street.
Fork, gold and silver, Blue Mountain district, $W$ H Jessup, 33 Fremont street.
Fort Point, gold and Silver, J F Miller, 327 Montgomery street.

Flor de san Antemio, grld and silver,
Foundling, crold and silver. Wm l: Mundy, Fof, Montgomery street.
Fedix, gids, Devil's Gute District, Willian Willis, Tl2 Muntgumery street.

## Fanay Rend, silver, F W Ciross, 436 , ackson st eet.

Federal lic public, wilver, Virginiu Histrict, N: Shiverick, cor, Montgonmery and Clay stroeta
Fellows (quartz Miming C'o., L Francuui, Lucae \& Turner's building:
Falotaff Miring ('o., J F laileg, fins sucranento street.
F C Lomis, gold and silver, Gold Hill Districi, \& I' steele, Virginia City.
Fluwery, Flowery District, J G Gilchrist. Virqinia (iity.
First A. Chinuahma Mining Co., Esmeralda bistrict, W W Lawton, fu0 Montgomery St. Federal Hopis geld and silver, Lomeraha fistrict, Thos. Brownohn, fi21 Clay etruet. Guadulupe, silver, (Mihuahua, Mrxico, Win IBackwood, 742 W ashington strent. Gould \& Curry, grll and silvor, Vira Ilis't. I 'I I, Wadsworth, Lucas \& 'Turner's building Guod Hope. Nevada 'herritury: 11 Davisom. 33 B Monfgomery street.
Guld Jill Qt\% Mill it Mining Compmany, (iold Hill Hist rict, ('hns Pioda, 627 Front street. (ireat C'entral Mining C'o., District J iv Cullins, 32! C'lay street.
Garibaldi, gohd and zilver, Esmeralda Distr et, II I) Bequatte, Aurora.
Gazelle, gold and silver, Esmeralda District, Daniel Clark, Court Btock.
Governor, Heval's fiate Jistrict.
Gold Hill Union Mills, guld and silver, (Gold IIIll Inist, J F Sterling, 327 Commercial St. Great Western Mining Co., Coso Di-t., 'I'ulare Co., Barclay Henley, Express Buildiog. Gen. Grant, gold and silver, Bameralia Vistrict,
Gen. Jackson, gold and silver, Vimmerulda District, P B Oppenheim, Aurora, Gulden Apre, gold and silver, Humbuldt Distriet, A. L Chamborliu, 413 Montgomery St. Green, gold and silver, Gold Hill Vist. Gobernadora, eilver, San Autonio, L. O.
Gov. S ymuor, gold and silvi r, leepee River district, 1 B Francis, 228 Frout street. Gen. Houker, gold and silver, Virginia district, J H Brever, to Muntromery block. Goadalupe de Ios Anreles, gold and silver. L A Samerson, 13 (curt block. Georgina, gold and silser, slate Range District, W W Lawton, 400 Moutgomery street. Ciolden Era, silver. F' W Gross, 436 Jackson street.
Gen. Hooker, gold aud silver.
Goldeu Age and Emp.. gold and silver,
Gon. Hooker East, gold and silver.
Globe, gold and silver, Wm H Watsnn, 607 Clay street.
Graud Turk, yoll and salver, Wm 11 Watson, $60 i$ (llay street.
Gray Eugle, gold and silver, W'm H Watson, 607 Clay street.
Gulden Gate, silver, J P Nourso, Lucas \& 'Jurner's buildiner.
Gem, gold and silver, L-meralda districl, 'L' Fliteroft, 617 Clay street.
Gililersleeve, gold and stlver.
Good Hope, goid and silver.
G.eat Western Tunnel \& Mining Co., Coso district, W W Lawton, 400 Montgomery St. G․v Stauford, gold and silver,
Golden Wedge, silver, J P Nourse, Lucas \& Turner's building.
Gold Hill Quartz Mill \& Mining Co., Gold Hill district, Wm V Garvey, 619 Merchant St. Gould \& Curry No 1 Mining Co.
Golconda, gold and silver, Reese River District, M L McDonald, 34 Metropolitan block. Gulden Wedse Mining Co..
Gortha Mining Co, Esmeralda district. J H Purkitt, 422 Montgomery street.
Green Rock Mining Co, Angel's Camp, E A Breed, cor Jackson and Mon'gomery streets Grifinn 'Tunnel Co,
Graham, rold and silver.
Guv. Potter, gold and silver,
Geraldine, gold and silver.
Gold Hill, silver.
Grizz: y Hill Consolidated Tunnel Co.
(falvin Niuing Co., K'smeralda district, F. H. Rogers, 607 Washington st.
Gulden Age, gold and silver,
Golden Erau Mining Co ,E C Lovell, 436 .Tackson straeet.
Gold Hill Big Ledge Mining Co., Wm Willis, 712 Montgomery street. Green Monster, gold and silver.
Great Eastern, gold and silver, Virginia District, L F Yates, South O. St., Virginia City. Gila, gold and silver.
Gov. Nyc, gold and silver, Devil's Gate district, Geo. M Blake, 416 Clay street. Golden Rule Mining Co.. Tuolumne Co, J B Russell, 410 Mintgomery street. Gem of Nevada, gold and silver, Wm Willis, 712 Montgomery street.
Granite Rock, gold and silver, Ceder Hill district, T Brownjohn. 621 Clay street. Green Rock Tunnel Co., Fismeralda district, L D Ingoldsby, 80 Merchant St. Great Basin Miviner Co., Humboldt district, J H Bluod, 7 Mongomery street. Geo. Emmet, qold and silver, Esmeralda distriet, J Woodthorp, 426 Clay street.
Grey Ledge, gold and silver, Murphy's district, M G Elmore, 528 Montgomery street.
Humboldı Mining Co., Galena district, G O'Eara Tanfe, 430 California street. Hornet Mining Co., Virginia district, O H Light, Virginia City. Hope Miuing Co., Gold Hill district, F W Gross, 436 Jackson street. Hale \& Noreross, silver, Virginia district of Lightner, Metropolitan block. Harrison, gold nud silver, Flowery district, Flenry Toomey, N Ei cor Mont. and Cal. St. Hazel Green, gold and silver, Virginia district, T Brownjohn, 621 Clay street. Heath, gold and silver, Esmeralda district, H D Bequette, Aurora.
Hawley, gold and silver, Devil's Gate district, C Stevens, 6 Parrott's building. Humboldt Mining Co., Galena district, J L Pool, 540 Washington street. Hattie, gold and silver, Esmerada district, J II Purkitt, 40 Metropolitan Block. Hope, gold and silver, Prince Royal district, L Franconi, Lucas \& 'Turners's building. Hermine, gold and silver, Esmeralda district, C H Wakelee, 612 Morchant street. Hayes, gold and silver, Slate Renge district, C H Wakelee, 612 Merchant street. Halleck, gold and silver, Great Mogul district, of L Pool, 540 Washingtion street. Humboldt, gold and silver, Russ district, D Wilder, 522 Moutgomery street.
Heckendorn, gold and silver,
Hebe, gold and silver, Reese River district, Wm V Garvey, 619 Merchant street.
Hudson Mining Co., Gold Hill diatrict.
Highland, gold and silver, Humboldt district, Wm A Cornwall, 528 Clay street. H Raymond, gold and silver.
Halias, gold and silver.
Harrison, gold and silver, Geller Ledge, L F Yates, Virginia City. Halsted, gold and silver,

## Herzo Consolidation, cold and silver.

Hensley, silver and copper, Weaver district, O. 'T., J G Turner, 606 Montgomery street. Holdridge, gold and copper.
Humboldt Canal Mining Co., Humboldt dist, E A Breed, cor. Jackson and Mont'y Sts. Hartford Tunnel and Miniag Co.
Murkon, grold and silver, Devil's Gate District, J L Pool, 540 Washington street.
Hartford Mining Co., Gold Hill district, J S Davies, 18 Montgomery block.

Hurnitas peold and silver.
11arri - gold athi sitver, Cismeralda district, Mugo Dreschfeld, 24 Nigglee's building.
 Harker, grold and silver, Rosese lliver district, J A nriukhouse, 228 F Font street.
Haral, gold and silver, Sinalua, Mexicu, W 11 Murtin, 617 Chay street.
Isnacs, gold and silver, Eameralda district, Jas. Neary, 326 Clay steert.
Independence Quartz Co.
Iuwa, mining cu. Virginia district, R N Yan Brunt, 706 Montgomery street
Ida, gold and silver, Russ district, David Wilder, 524 Montgrmery stroet.
Illinois 'Tunmell and Mining Co., Fismeralda district, M Wullace.
Indian Quepu, rold and silver, Fistmerulta district, T' L, Bihbins, 305 Montgomery street.
Insurance Mining ('u., Jus Cinllarlier, Thi Insurance Mining Co., Jas Ciallurher, 716 M Montgmery sticet.
Imadianola, gold and silver, 11 umbolt Distriet. J F I'ope, 113 Califoruia street. Iown, gold and silver, C V Hobert, 505 Montgomery street.
Isubel a, gold and silver.
Ingrot, gold and silver.
Isabella Mining Co.
Indian Queen, gold, El Dorado Canon.
Irataba, silver aud copper, Weaver District, G J Turact, 606 Montgonery st.
Indus, gold and silver.
Indian Chief Lode Mining Co.
Indian, gold and silver, John C Leconey, Virginia City.
Indiana, silver
Independent gold and silver. Argentine District, E E Phillips, Virginia City. Ironclad, gold and silver, El Paso listrict, Eslward Barry, G36 Sacramento st. Inrerial, gold and silver. Gold IHill, C 'I' Hopkins, 405 Front st.
Irving. gold and silver, Virginia District, M L Winn, 542 Sacramento st.
Imperatrice Eugenie, gold and silver; Calaveras Co.J Woodthorpe, 326 Clay st.
Jackson, gold and silver, Esmeralda District,
, Aurora.
Josephine. gold and silver, Coso District, W W Lawton, 400 Montgomery street. Jewel, gold and silver, Devil's Gate Jistrict, Cha's Gardner, 610 Washington street. Jack Hayes, gold and silver, Esmeralda District, J H Blood, 7 Montromery block. Jefferson, gold and silver, Esmeralda District, 'I I. Bibbins, 305 Montrgomery street. Jason Mining Co. Sierra and Nevada Co. L Maubec, 716 Montgomery street. Jenny Lind Mining Co. Esmeralda District, P B Cornwall, 608 Merchant street. Juniata West Mining Co. P Basche, Silver City.
Joe FIooker Mining Co.
Jefferson, gold and silver, Silver City, E N Bashford, Silver City.
Jejeebboy, gold and silver, Santa Clara District, W Sparrow, 543 Clay street. Juniata, gold and silver.
James River, gold and silver, John Gorman 423 Battery street.
Josephine, enpper, Calaveras Oo. T Brownjohn, 621 Clay street.
Jnlius, gold and silver, Reese River District, L Franconi, Lucas \& Turner's building.
Juno, gold and silver, Esmeralda district, M G Elnore, 528 Montgomery street.
Kohler Bros. silver, San Antonio, L. C., Kohler Bros. Sansome street.
Kohler, gold and silver, Esmeralda District, James Neary, 326 Clay street. Keokuk, gold and silver, Esmeralda District, C H Wakelee, 612 Merchant street. Kate, gold and silver, Pince Royal District, L Tranconi. Lucas \& Turner's building. Key Quartz Lode Mining Co. Slate Range District, L I Iove. Custom House. King David, gold and silver, Esmeralda District, 'I' Browajohn, 621 Clay street. Kenosh, gold and silver.
Katy Wakeman Ledge Mining Co. Washoe District.
Kemp, gold, silver and copper.
King, pold and silver.
Keokuls, copper, A B Winegar, 322 Front street
Keltz, copper, Tuolumne Co. H C Kibbe, 542 Sacramento street.
Kentucky, gold, silver and copper.
Kohler Bros.silver.
Lafayette, gold and silver, Gold Hill District, $\overline{7} \mathrm{~m}$ E Moody, 706 Montgomery street.
Lucerne Mining Co. Gold Hill District, J S 'axson
Lytton Mining Co. Genoa District.
Lady Bryan, gold and silver, Tlowery District, John T Bailey, 605 Sacramento street. Latiobe Tunnel and Mining Co. Virginia District, R N Van Brunt, 706 Montgomery st. Live Yunkee, gold and silver, Esmeralda District, J A Moultrie, Aurora. La Plata Mining Co. Esmeralda District, H S Sanders, Aurora.
Livingston, gold and silver, Esmeralda District, Jas Neary, 326 Clay street.
La Amistad, gold and silver, Santiagn, L. C., A de Senaillac, cor Montgomery \& Jackson.
Los Cruzecitas Mining Co. Sonora, Mexico, C J Brenhaum, cor Juckson and Front streets.
Lily of the West Mining Co. Esmeralda District, T L Bibbins, 305 Montgomery street.
Laurel Hill Mining Co. Trulumne Co. Jno B Russell, 410 Montgomery street.
L ly Dale, gold and silver, Silver Hill, J R Beard, 4 Armory Hall.
Los Angeles Con. gold and silver, Soledad District, Alfred Dennoe, 104 California street.
Lluyd, gold and silver, Esmeralda District, Isaac 'I'abor, 7 Armory Hall.
Lexington Tunnel Co. Star District, Chas Judd, Sherman's building.
Loyal, guld and silver, Esmeralda District, W F Hitchcock, 7 Mead House.
Lowmas, g.ld and silver, Virginia District, Wm K night, 414 Front street.
Lady Franklin, copper, Tuolumne Co. G F Turner, 606 Montgonery street.
Live Yankee, gold and silver, Slate Range District,, W W Lawton, 400 Montgomerystreet Lady Washington, gold and silvea, Slate Ravge D, W W Lawton, 400 Montgomery street La Plala Mining Cu.
Lady T'ucker, gold and silver.
La Blanch, gold and silver.
Luna, gold and silver, Esmeralda District, T Brownjohn, 621 Clay street.
Lafayette Mining Cu. Ames Gallagher. 706 Merchant street.
Loyal, gold and silver, Humboldt Co. F Vassault, corner Mon'gomery and Merchant.
Lander Co. gold and silver, Reese River District, A S Gould, 528 Clay street.
Livingston, gold and silver.
Lady Franklin, gold and silver.
Louisville, gold and silver, Humboldt District, H C Kibbe, 542 Sacramento street*

## Lake Mining Co.

Lord Byron, gold and silver, Esmeralda District, H B Congdon, 62] Montgomery street. Los Posos, gold and silver, La Paz District, T Brownjohu, 621 Clay street.
Lafayette, gold and silver,
Louisa, gold and silver, Silver City, J F Pope, 115 California street.
Lexingtun Mining Co.
La Belle France, gold and sulver.
Loomis, gold and silver, Prince Rojal District, W Sparrow, 543 Clay sireet.

La Palma, silver
Lulu, copper and silver, Weaver District, G J Turner, 606 Montgomery street,
Luag 'T'ora, gold and silver.
Lady Adams, silver.
Logan, silver.
Lady Washingtnn, silver, N Shiverick, cor Montromery and Clay.
Lady Franklin, silver, N : ihiverick, cor Montmonery nd Clay.
Lone Star, silver, Esmeralda District, A Hanke, Aurora.
$\mathrm{L}_{2}$ Mariposa de Gra, gold, silver and copper.
La Luz Mining Co.
Lady Ann, gold and silver.
La Gloria, gold, silver and copper, 476 Jackson street.
La Mina de la D Prov, gold and silver.
Live Oak, copper. Guppher, Calaveras Co. J II Gayer, Merchant street.
Lancaster Mill and Mining C'o. Humbuldt, Co. N. T, U Wetzier, 320 Montgomery street.
La Blanca Miuing Co. Souora, Mexico, Clans Frieherg. 408 Clay street
Lone Star Mining Co. Reese River, A L Whitney, 602 Washington street.
La Esperanza, Arizona, C A Elaztman, 726 : llontgomery street.
La Providencia Sitver Mini g Co Cupalo, sinaloa. Frank W Grosss, 436 Jackson street.
La Miua del Norte Silver Miniag Co. San Antouio, L. C., Henry Vian Pelt, 436 .Juckson.
La M. na Ophi Silver Mining Co. San Aotonio, L. C. Henry Van Pelt, 436 Jackson stree
Lizzie Leighton, Consolidation; Esmeralda District, J R Beard; 4 Armory Gall.
Lady Ellen, $g$ \& $s$, , silver City District, L 7 Inguld by, 819 Merchant street.
Loogley, gold and silver, San Francisco district, A. 'I', S' H Corey, 410 Montgomery street.

## Mount Veroon, silver.

Mt. D. vidson, gold and silver, Virginia district. F A Fabens, 47 Montgomery block. Meredith, gold and silver, Virginia district, \&i B Holnes, 712 Montgourery street. Mayflower, yold and silver, E meralda district, W L Dancan, Pioneer tuildiug. Mormon, silver.
Mina Prieta, silver, Sonora, Mexico, J P Nourse, Luc ss \& Turner's building.
Manzanillo, silver, Sinaloa, Mexico, - Eddy, 616 Merchant street.
Moss, gold and silver, Vireinia district, 1 L © Page, 428 Montgomery street.
Montezuma Tunuel and Mining Co. Esmeralda district. Aurora.
Mt. Braly Summit, gold and silver, Essmeralda district, P B Oppenheim, Aurora.
Monroe, gold and silver, Grass Valley.
Monarch, gold and silver, Virginia district.
Madison, gold and silver, Virginia district, P B Corowall, 608 Merchant street.
Monterey, gold and silver, Devil's Gate district.
Melones and Stanislans, gold, silver and copper, Calaveras, Geo. Congdon, 629 Commercial
Mathews gold and silver, Esmeralda District, E Worth, 547 Washington street.
Merchant and Mivers, gold and silver, Nevada Territory, M Lichenstein, Virginia City.
Musidora, silver, Sonoria, Mexico, F H Waterman, 618 Merchant street.
Mohave, gold and silver, Lower California, GS Turner, 6inc Montgonery street.
Mountain View, gold and silver' Slate Range district. W H Clark, 224 Montgomery street Morrow East, gold and silver, Slate Range, district, W H Clark, 224 Montgomery street. Milwaukie, gold and silver, Slate Range district, W H Clark, 224 Montgonery street. Montrose, gold and silver, Fsmeralda district.
Mcunt Hope, silver, Virgivia district, Thomas Brownjohn, 621 Clay street,
Mono Tunnel and Mining Cumpany, Esineralda Distriet, L $D$ Ingoldsby, 80 Merchant strt.
Manbattan gold and silver, Humholdt district, J H Gager, Montyonery Block.
Mayllower, gold and silver, Star District. J A I rinkhunse, 228 Front street.
Mason, gotd and silver, Esmeralda district, J A Drinkhonse, 228 Frunt street.
Mammoth Juuvel and Mining Conpany, Esmeralda distr ct J A Driukhouse. 228 Front st
Marmion, copper, gold \& silver, Mariposa district, J 'T'Hoyt, 415 Moutgonery street.
Madisou, gold and silver, Slate Range dist ict $G J$ Juru $r$, Ging Montzonery street.
Madison, gold and silver, Slate Range district, G J Turner, 606 Montgomery strest.
Miller, gold and silver, Esmeralda district, Isaac Tabor, 7 Armory Hall.
Madison, gold and silver, Silver Mountain district.
Monterama, gold and silver, Reese River district.
Mammoth No. 1, gold and silver, Esmeralda district, J R Beard, 4 Armory Hall.
Magna Charta, gold and silver.
Monitor, gold and silver, Slate Range district, John Crowley, 428 Montgomery street. Mammoth, gold and silver, William E. Moody, 706 Muntgonery street
Monte Cristo, silver, Virgivia district; E B Holmes, 712 Montgomery street.
Minehaha Mining Company.
Montreal Tunnel and Mining Co., Essueralda district, J H Blood, 7 Montgomery Block.
Monlder, gold and silver,
Minona, gold and silver, Esmeralda district, 'T' Brownjohn, 621 Clay street.
Manhattan Mining Co., Edward Frankliu, corner of Muntyomery and California streets.
Monaduock, gold and silver, Sugar Pine district, A S Guald, 528 Clay street.
Moonlight, gold and silver.
Montague, go'd and silver.
Mallard Uonsolidated Mining Oompany.
Minnesota Consolidated Mining Cimpany.
Maria, silver.
Minerva. gold and silver, Gild Hill district, L D Ingoldshy, cor. Merchant and Montg'y sts
Mount Etnæ, silver and copper.
Muy Rico, silver and copper.
Magnolia, gold and silver.
Marion, gold and silver.
Mount Vernon, gold and silver.
Mountain Tunnel.
Marmoth, silver, Humboldt district, H C Kibbe, 542 Sncramento street.
Morning Star silver, Great Mognl District, C M Conro, 623 Merchant street.
Malta, silver, Gold Hill district, A L Chamberlain, 413 Mongomery street.
Merchant, silver, Esmeralda district, J F Sterling, 33 Montgomery Black.

## Manttol, copper.

Montgounery, gold and silver, Kern River district, G. J. Turber, 606 Montgomery street.
Marble Valley, gold and silver, Ohio district, El Dorado Co., D F Verdenal, 6 Curut Block

## Miunesota, gold and silver.

Mary L. Gardiner, Esmeralda.
Morning Star, gold and silver, Virginia City, N. T., Wm. A M Van Bokelen, Va. City.
Montezuma, gold and silver, Ell Dorado Canon.
Meredith $;$ gold and Silver.
Mariana, gold and silver.
Montgomery Mining Coo., g. and s.. Monitor dis., Amador, T J Owens, 1 Amory Hall. Mechanics', gold and silver, A B Winegar, 322 Front street.
Madrago, gold and silver.
Monte Christo, gold and silver. Palmyra district, N. T., M W Weill, 630 Sacramento street
Monte Christo, silver. Kern River distriett $\ddagger$ J 'Tnriner, ming Muntgomery street.
Mountain, gold aud silver, W E Moody, 700 Montgouery street.

Miller Gold and Silver Mining Co., Smoky Valley, R. R., F W Gross, 436 Jackson street.
Manaolana, gold and silver.
Mount Washington, go dand silver.
Metropolitan, copper, Calaveras Coanty, P B Cornwall, 608 Merchant street.
Monte Leone, Copper.
Mina Prieta, copper
Murphy's Gulch Mining County, Amador County, C O Bowman, 726 Montgomery streat.
Madison, gold and silver.
Mathewson, gold and silver.
Mina Rica de las Flores Mining Company.
Moran, guld and silver."
Morgan, gold and silver.
Maryariti, -ilver and copper, Soledad district, L Franconi, Lucas \& Tarner's Building. Madisun, gold and -ilver.
Mc Douald, gold. silver and copper.
M unt. Hupe, No. 2, gold and silver.
Mammuth Consolidated, Excelsior district, M G Clmore, 828 Montgomery street.
Munutaineer, copper.
Mount stanislaus, gold and silver,
Muhawk, gold and silver.
Monitor, gold and silver, El Dorado Canon.
Mc Mahon, gold and silver, Devil's Gate district, A Noel, 607 Washington street.
McClellan, gold, Visginia district, Jabish Clement, 48 Metropolitan block.
Missuuri, gold and silve , Big Ureek district, M L McDonald, 34 Metrupulitan block. Mina; gold and silver, Esmeralda distriet, John Crewley, 428 Montgomery street. Monut Gion silver aod copper, R II Blanding, coruer California and Montromery streeto. Minturn \& (Garland, gold and silver, Virginia district, 'I' Brownjohn, 621 Clay street. Mount Washington. gold and silver, Virrinia district, Henry Toomey 402 Muntgomery 5 \%. Midnight, gold and silver, Esmeralda district, William V. Garvey, 619 Montgomery street. Metrop litan, gold and silver, Anador county, T J Owens, 1 Amory Hall.
Mammoth Ledge, couper, Del Norte county, George F. Sharpe, U. S. Court building. Moselle Mining Company, Esmeralda district, W W Lawton, 400 Montgomery street. Mississippi, Virginia district, G H Bigelow over Parrott \& Co.
Minzanilla, Sinaloa, Mexico, 'Thomas Lrownjohu, 621 Clay street.
Minsquito Quartz Mining Company, Edwarã F, nnard. 433 Montgomery street.
Manchester G. \& S. M. Company, Monitor dis. Amador, Hugo Dreschfield, 24 Naglee's bd Marroneua, silver, Lower California, Wm Faulkner, 411 Clay street.
Mina del Norte, San Antonio district, Henry Van Pelt, 436 Jackson street.
Mohawk, g \& s, Virginia District, H S Dalliby, 604 Moutgomery street.
North Potosi, silver, Virginia dis., E V Joice, cor. Battery and Washington streets.
Normañ, silver. Flowery district, John F Bailey, 40 Montgomery Block.
Napa Quartz Mining Company, Esmeralda distriet, _, Napa City.
Norton, gold and silver, Virginia district, R N Van Brunt, 70.6 Montgomery street.
Nevarda T'unnel \& Mining Co., Esmeralda district, - - - Aurora.
New El Dorado, gold and silver, Virginia district, __._ , Eacramento.
New York. gold and silver, Slate Range district, A H Clarke, 522 Montgomery street.
Nevada Mining Co., Esmeralda district, P B Cornwall, 608 Merchant streets.
Neversink, gold and silver, Esmeralda district, D Clark, Court block.
North Star, gold and silver, Humboldt dis'rict, J H Gager, Merehant St., Montgomery blk Nightingill, gold and silver, Cinnabar district, A L Chamberlin, 413 Montgomery street. Numa, gok and silver, Mono couuty, Wm. Fishel, cor. Battery and Sacramento streets. North W Francis, gold and silver, slate Range district.
North Star, gold aud silver, Reese River district, J A Drinkhouse, 228 Front street.
Naw World, gold and silver, Wm H Watson, 607 Clay street.
New World gold and silver, N Webster, 608 Montgomery street.
N Y Po nt Gand S M Co, Gold Hill district. N K Lamson, Virginia city. Norman Company.i Virginis d strict, J H Brewer, 40 Montgomery street.
National. gold and silver, Jismeralda district, I F Sterling, 33 Montenmery street. Nevada Coal Oo, Bniling Springs, Hamboldt district, $C$ Gardiuer, 3 Burron's Building. Nortl, gold and silver, Star distriet, James Harrick, 606 Montgomery street.
New Era, copper, Salt Spring district, E Barry, 636 Sacramento street.
Noonday, gold and silver, Reese River district, L D Ingoldsby, 80 Merchant street.
Niagara, gold and silver, Amprican District, G J Turner, 606 Montgomery street.
Nashville gold and silver E C Lovell, 436 Jackson atreet.
New Eden, gold aud ailver, Devil's Gate district, A S Gould, 528 Clay street.
Nevada, gold and silver, Nevada district, Cal. S Piokham, Eront street.
Noble, copper, Calaveras County, F A Breed, Lucas and Turner's Building.
Nevada, copper, Nevada Co, G V, John Armstrong, 610 Merchant street. Napoleon, copper, Culaveras Co, R C Alden, 420 Muntgomery street.
New Year Diggin, gold and silver, - , 59 Metropolitan block.
Niagara, gold and silver, Colorado district, MG Elmore, 528 Montgomery street. Nevada Gold Quartz Mining Co. Deer Crcek, Nevada Co. G W Kinzer, 56 Mont. Block. Ophir. silver, Virginia district, Thos J Lamb, Room 1 Jxpress buildigg.
Osceola, gold and silver, Silver City, C W Evans, San Antonio, Alameda. Occidental Mining Co, Emma Frances district, J H Gager, Montgomery street. Orio, Mining Co, Santa Cruz Co, Geo H Kohler, 526 Montgomery street. Oriental, gold and silver, Virgivia City, Jobn Lı Leconey, Virginia City. Oneida, gold and silver, Mono county, E Dajiels, Express Building. Oregon. gold and silver, Reese River district, f A Drinkhouse, 228 Front street. O'Donohue, gold and-silver, Esmeralda distriet, T' Fliteroft, 617 Clay stseet. Offield Ledge Mining Co, Sacramento Co.
Oriental, gold and silver, Monitor district, T J Owens, 1 Armory Hall. Owens River, gold and silver, Ira Munson, 817 Montgomery street. Omera Mining Co, Gold Hill district, I D Ingoldny, 80 Merchant street. Oriole, gold and silver. Esmeralda district. Thos Letson.
Occidental, copper, Soledad district, E Barry, 636 bacramento street.
Ort Fino, Reese River district, M L McDonald, 34 Metropolitan block.
Ophir Mountain, Slate Range district, J B Russell, 410 Montgomery street. Overlaud, silver, Reese River district, A S Gould, 528 Clay street.
Orleans Quicksilver Mining Co., Lake Co, H C Kibbe, 541 Sacramento street.
Omaha, copper, Campo Seco, H C Kibbe, 542 Sacramento street.
Olive City, copper, La Paz, Thos Brownjohn, 621 Clay street.
Owens' River, gold and silver, Inyo district. Tulare Co, E C McComb, 621 Clay street.
Ophir Silver Miving Co. Slate Range district, John B Russell, 410 Montgomery street.
Potosi, gold and silver, Virginia district, J F Lightner, Metropolitan block.
Pride of the Antelope, gold and silver, Esmeralda distric ${ }^{+}$, ——— Aurora.
Porter, gold and cilver. Lamb Ledre R C Page, 420 Montgomery street.
Philadelphia, grold and silver, Slate Range, district A H Clark, 522 Montgomery street.
Pena, silver, San Anturio, LT. Wm. Faulkner, 411 Clay street.
Peytua, guld aud sil rer, Virginia dis rict, C Stevens, 6 Parrot's building.

## Polar star, guld and silver, E-meralda di-trict, M B Ashim, Sacramento.

 Prerlemor, kolh and silver, Buem Vista district, A I, Chamberlain, il:s Montgomery St. Pacitce, fold and silser, Munu ' 'o., II R Reed, 321 Wiahingtom street. P'ortland, sllver, Aurora, lieo Bower. Montgomery atreet.
J'ond, goha and silver, Rismerala district, 13 ('onwall, bi08 Merchant street.
I'rid of tameralda. gold and silver, Lismeralda district, J F Bailey, Gitis sucramento St. Youl Thompson, gold and sher, lismeralda district, Seorge Buwer, Muntgomery struet. Pioneer ('uso, Cuso district, If B Hulme-, 712 Muntgomery street. Pauline, gold and silver, Hosneralda district.
Pride of Wide West. Fismeralda district, John Crowles, 428 Montgomery street. Prospero, gold and silver, 11 umboldt district, V 13 Post, Lecas d' 'rumer's building. Pride of Uphir, lismeralda district, 'Thos Brownjohn, fiol ('lay atreet.
I'epit.s, silver, Dev l's Gate district, Gumer Evans, 338 Montgomery streot. l'ine Nut C'msulidation, silver, Reere River district. A A Gould, 52 s C'lay street.
 I'lutuna. golit a d silver, Thevil's (iate district, JI, Pool. 540 Wrashington street. I'riace Imperial, guld and silver, C'alaveras Co. J Wuodthorpe, 326 C'lay street.

Princess, gold and silver, C'olorado district, New Mex'co, R C'lark.
Prid. of the Weat Mining C'U. Silver City, L 1) lugroldsby, 80 Merchant street. Pracific star Con, guld and silver, Star district, J L Pool, 540 Washington street. I'in'y ('reek, goth, silver and cupper, Mariposa Co.Jus. Nardano, Lucan \& Turner's Bdg. l'aluigra Consolidation, guld and silver, l'almyra district, © W Curtis, 606 Montgomery st. Pensacula gulal and silver, lismeralda district, J II Blood, 7 Montgomery Block. Pour Mans Mining ('u. I'rinen Ruyal district, W S'parrow, 543 Clay street.
P'uritan, gold and silver, 11 I3 C'onggion, 621 W ashington stroet.
P'ride of Washoe, gold and silver, Washoe distriet, W m Li Mondy, T06 Montgomery street. Hrovidence, gold and silver, Nevada Cu.J M Buftiugton, 12 Govermment House.
Pioneer Mill and Mining Co. Resese River district, LD Ingoldshy, 80 Merchant street.
Purker 'Tunnel, golu, Lismeralda district, $\Lambda$ is Gould, 528 ('lay street.
1'rimee'ss IRoyal, gold aud silrer, T' ('MeC'allan, 617 ('lay street.
Peninsular Mining C'o. Lower C'alifornia, D A Jemnings, 606 Front street. Yacific Quicksilver Mining Co. Lake Co. H C' Kibbe, 543 Sacramento strert. Plymouth Quar:z Miuing Co. Kelsey district, L D Ingoldsby, 80 Merchant street.

Quincy Mining Co. Plumas Co.-—Quincy, Plumas Co.
Quen ('ity, zoldand silver, El Dorado Canon.
Yueen of the Wesf, guld and silver, E E E Phillips, Gold Hill.
Quaker C'ity Little Ciant, roll, silver and copper, Claytou district, W L Kirbe, 610 Clay st. (Quartz Mountain, gold aud silver, EI Horadu Co. F W Gross, 476 Jacksun street.
Yueen of the West, Reese kiver district, 'l' Brownjobn, 621 Clay street.
Rogers, silver, Flownery district, John F Pope, 113 Cahfornia street. Reat del Muate Cons gold and silver, Hsoueralda district. S' Pattee, 522 Montgomery street Heesu River, guld and silver, Reese River district, R N Van Bruat, 706 Mont.omery st. Red, White and Blue, guld and silver, Esmeralda district, T L Bibbins, 305 Montgomery. Kochester, gold and silver, Slate Range district, A H Clark, $\overline{2} 22$ Montromery street. 1Ruth Windsor, guld and silver, Lsumeralda district, T' L Bibhins, 305 Muntgumery street. Thenies Dig. inys Quartz Mining C'o. lismeraldu district, G 'Touchard, 414 Montgomery st Recorder, ruld und silver, Storey Co. J si Davies, 18 Muntgonery bluck.
Ruby, gold and silver, Sitar district, W H Martin, 617 Clay street.
Realito, gold and silver, Sonora, Mexico, $1 \mathrm{~F}^{-} \mathrm{C}$ Budd, 412 Sansome street.
Rij Y'an Winkle, gold and silver, Esmeralda district, M G Elmor, 528 Montgomery street lusebud, gold and silver, Esmeralda district, J M Burnett。 $60 \overline{\text { Mon }}$ Montgomery street. RRochester, zold and silver, Esmeralua district, Isaac a abor, 7 Armory Hall. Roanouk, gold und silver, Esmeralda district, Jas Herrick, 605 Montgomery street. Railroad, silver, Reese River district, AS Guuld, 528 Clay street. Kough and leady, gold and silver.
Red Jacket, golu and silver and copper, Nevada county, C W M Smith, 27 Federal bld. Rife, gold aud silver.
Kelief, gold, silver aud c. pper.
Rose Spring Water and Mising Co. Coso district, W W Lawton, 400 Montgomery street Rugsdale, gold and silver.
Rayals, gold and silver.
Russel, gold and silver.
Red Roci, gold and silver
Rich Hall, gold and silver.
Ruth Tiudsor 'Tunnel Co. Esmeralda district, T L Bibbins, 305 Montgomery s'reet. Mhodes North Ex. Mining Co. Fulsoun district, L Maubec, 716 Mont:omery street. Rambler Miuing Co. Slate liange district, Wm V Garvey, 619 Merchant street, Rose Quartz Mining Co. Jagle and Washoe dis ricts, Jas IIerrick, C06 Moutgomery street. Rising sun, copper, Claytun district, W S Kirby, 610 Clay street.
Rock River, gold, H U Kible, 542 Sucrami nto street.
Red Butte Mining Uo. Esmeralda district, W W Lawton, 400 Montgomery street. Rogal Eagle und Cliff, gold and filver, J Krieg, 755 Clay street.
Ravenna, gold, Arizona Yerritory, Jules P Cavillier. 619 Washington Street.
Rose Spring, Hump of the Dip, Pilot Knob district, G J 'lurner, 606 Montgomery street.
Scorpion, silver, Virginia district, W H Martin, 617 Clay street.
Sierra Nevada, silver, Virginia district, J H Brewer, 40 Montgomery block. Silver City, gold and silver, Silver City, O Risdon, cor Battery and Bush. Succor, gold and silver, Gold Hill district, R H Waller; 1 and 2 Mon gomery block. Shelton, silver, Argentine district, J S Davies, 18 Montgomery Block. Sierra, silver, Genoa district, S P Vandyke, 127 Clay street. Sierra Lumber and Mining Co. Genoa district.
St. Louis, grold and silver, Gold Hill district, J H Brewer, 40 Montgomery Block. Silver Mound, silver.
Silver City Quartz Mill Co. Silver City, E Bauer, 414 Washington street. Scoria, Virginia distriet.
Swansea Milt and Mining Co. Silver City.
Sapphire Quartz Mitl and Mining Co.
Santiago, gold and silver, Silver City, E A Breed; Lucas \& Turner's Building. Santa Rosa, gold and silver, Virginia district, Nelson Hudson, Front street. Sacramento, gold and silver. Virginia district, S W Moore, 408 California street. Sam Wright, Esmeralda district. E Worth, 547 Washington street.
Sierra Butte Quartz Mining Co. Sierra Co
Sigel, gold and silver, Fumboldt district, J II Gnger, Merchant st., Montgomery Block. Savage Mining Co. Virginia district, G B McAnchy, 712 Montcomery street. St, George, gold and silver, Virginia district. Win © Smith, Virgiuia ("ity. Slate Range, gold and silver, Slato Range district, A H Clark, 52, Montgomery street.

Souch lotah rold and silver. Fismeralla district, P 13 Curnwall, 608 Merchant street.


 Sun Bemard, sitver, Sitar district.
San Juse, silver, Luwer Mexico.
Sucrumenta Hinst, quld and silver, Slate Runge dis'riet, W H Clark, 224 Montgomery st. Sunsera, gold und rilver Kismeralda district. 11 i) Bey rette, Aurora.
Sum Patch, grold and silver, Hamerulda district, J H Blood, a Montgomery Block. silver M usd. guld and silver, Grass Val., Nevada Cu. Jolm Armatrong, 610 Merchant St Strawbery, god and silver, Fimeralda dis rict, II 1) Bequette, Aur.ra. Sutr., gold and silver, Virgin a distriet, N W Winton, Virginia City. Shoshone, silver, Lamber Cu. M J Newnark, 52'2 Montgomery street. Sugar ['ine. g' Id aul silver, 'Tuolumne Cor. is D Jones, C'ustum House. Seneca, pold und silver, lismerahat district. 'I' I, Bibbins, 30: Montgomery street. Silver Age, grold and silver, Esmeralda district, 'T' Brownjohn, 621 Clay street. Sotogome, quld and silver. Esmeralda distriet, 'I' I, Bibhins, 305 Montgomery street. St. Clair, gold and silver. Fismeralda district, E W orth, 547 Wa -bington street. Schmeltzer, silver, American district, M G Elmore, $52 \gamma$ Montgumery street. Si. George, goll and silver, Humboldt district, A LC Chamberlin, 413 Muntgomery street. Sal Juse de Vantanas Mining Bu. Durango, Mexico.
Summit Pass Mining Co. Tuolumne Co. 'I' B Ludlum, Flint's warehouse.
San Francisco, gold and silver, Slate Range district, G J 'lurner, 606 Montgomery street. Shebr, gold and silver, Star district, R C Harrison, 6 Naglee's Building.
San Francisco, gold and silver, Culorado district, H C Kibbo, 542 Sacramento street.
South Son ra Mining Co. Vismeralda district, J II Burnett, 605 Merchant street. Sa Carlu Exploring and Mining Co. 'Pulare Co. W W Lanton, 400 Montgomery street. Schiller, rold and silver, Lismeralda district, T Brownjohn, 621 Clay street. Salinas, gold and silver, Monterev, Geo E Whitney, 9 Montgomery Bluck. Soledad, silver, Soledad district, Geo H Russell, 636 Sacramento street. South Potosi, gold and silver, Buena Vi ta district, J is Luty, 305 Montgomery strect. Scoth. Uxploring and Mining Co. Humboldt district, L Franconi, Lucas \& 'Iarner's Bdg. St. Charles, gold and silver, Esmeralda district, 'I' Brownjohn, 621 Olay street. Stonewall Cousolidation, gold and silver, L'smeralda district, 'T' Brownjohn, 621 Clay street Siam, gold and silver.
Sunbeam. Iat SW Extension, Esmeralda district, I Browajohn, 621 Clay street. Sa ta Isabel, silver.
Siakiyou, gold and silver.
Suell Exploring and Miuing Co.
Salvador, gold and silver:
Sun Francisco, gold und silvir, San Francisco district, M G Elmore, 528 Montgomery st.
Smuky Valley, silver, Lander Co. A S Gould. 52 U Ulay street.
Spring Valley, copper.
Silver State Mining Co. Virginia district, J S Davies 18 Montgomery Block.
Salazar, silver, La Paz, Arizona, C I liaton, over Keith's drug store.
Siweet V engreance, gold and silver, A Vavillier, 610 Front street.
Soledad Pass, copper.
San Francisco, silver, Potosi Ledge, N Shiverick, cor Montgomery and Clay.
Sitver Mount, copper, Esmeralda district, S Pattee, 522 Monlgomery street. Saxondale, gold and silver.
South Hawley Mining Co. Virgi ia district, J F Pope, 113 California street.
Stella Mining Co. Virginia district, J is Disvies, 18 Montgomery Block.
Sharon Mining Co. Virginia district, J S Davies, 18 Montgomery street.
Sulanbo, copper, Tuolumne, L Franconi, Lacus \& Turner's Building. Saginaw Quartz Mining Co.
San Rafael, gold and silver. Marin county, F H Rogers. 607 Washington street. Stevenson-Kehoe Mining Co. Gold Hill, Wm Williz, 7 I2 Montgomery street. Stanislaus Enins, gold and silver, II O Howard, 523 Moutgomery street. Scottie, gold and silver.
Sierra Cousolidation, gold and silver, M F Fitchcock, 305 Montgomery street. Sium Moore, guld, silver and copper, Clayton district, L Puwers jr. 309 Front street. Santa Rosa Mining Co.
Steptoe, gold and silver.

## Surprise, gold and silver.

Sonora, gold and silver, Virgivia district, L D Ingoldsby, 80 Merchant street. Santa Rosa, gold and silver, E Polhemus, 413 California street.
Silver Age, gold and silver, Virginia district,--Mygett, Virginia City,
Eag naw Quartz Mining Co. Tulure Co. F W Gross, 436 Jacksou street.
Sulur, golu and silver, Blue Mountain district, H Dreschfeld, 24 Naglee's Building. Syren, gold and silver, Calaveras Co. Leon Maubec. 716 Montgomery street. Suburban, gold and silver, Mission Dolores, M Calkin, 326 Clay street. Seneca, gold an 1 silver, Santa Cruz Co. M Culkin, 326 Clay street.
Saratoga, gold and silver, Esmeralda district, I' Brownjohn, 621 Clay street.
Silver Light, gold and silver, Gold Hill district, F Vassault, 4 Barron's Building. South Esmeralda, gold and silver, Esmeralda district, Wm V Garvey, 619 Merchant street. San Francisco, silver, Reese River district, A S Guuld, 528 Clay street. Silver Wedge, gold and silver, N Shiverick, cor Montgomery and Clay. Silver Star, gold and silver, Virginia district, W E Moody, 706 Montgowery street. Sau Antonio, silver, P Van Pelt, 810 Sansome street.
Soledad. copper, Soledad district, E Barry, 636 Sacramento street.
Silver Are, copper, Humboldt district, E I lanagan, 8 Naglee's Building.
San Lor nzo, gold und silver, Santa Cruz Co. M Calkin, 326 Clay street. Star Light, gold and silver, Humboldt district, J H Gager, Merchant street. Silver Butte Consolidated Silver Mining Co. Silver Butte dis. M G Elmore, 528 Montgomery. San Mateo Copper and Cannel Coal Mining Oo., San Mateo and Santa Clara. Soledad Hill, copper, Los Angelos county, Jule P Cavillier, 619 Washington street.
Tennessee, gold and silver, Lismeralda district, J H Blood, 7 Mon'gomery Block.
Tucker, gold and silver. Esmeralda district. P B Cornwall, 608 Merchant street
Triunfo. gold and silver, San Antonio, L C, H S Brooks, 536 Clay street
Tigre of Colorado, gold and silver, Durango, Mexico, L.W Newman, 737 Union street
Techattacup, gold and silver, Colorado district, F B Holmps, 712 Montgoméry street Third South Utah, gold and silver, Esmeralda district, Mo-\& Frank, 609 Clay street Tri-Union, gold and silver, Flowery district, N Shiverick, cor Montgomery and Clay Tucker Tunnel Co. Fismeralda district, P B Cornwall, 608 Merchant street Transmontane, Star district, W E Moody, 706 Montgomery street Toquina, silver, Reese River district, AS Gould, 528 Clay street Tulare Mining Co. Rodney Clark, 422 Montgomery street
Telegraph, gold and silver, Excelsiur district, Wm V Garvoy, 610 Merchant street
Tamilpais, Marin Co. is B Ruoney, Government Ifouse
Triton, gold and silver, Virginia district, W E Mondy, 70 Montgomery street
Tesura, gold aud silver, Lower California, H E Kible, cor Sansome and Califurnia

Table Mountain, copper, Calaveras Co. M G Elmore, 528 Montgomery street
Texas, gold and silver, Cedar Hill district, J G Libby, Virginia City
T'escalama Mining Co. Lower California, J H Blood, 7 Montgonsery Block
Telegraph, gold and silver, Amador Co. T J Owens, 1 Armory Hall
True Delta, copper, Del Norte Co. John F Pope, 113 California street.
Utah, gold and silver, Flowery district. J H Gilehrist, Virginia City Utah Mining Co. Esmeralda district,

## , Russ district, O is

Union Consolidated, gold and silv,
Union Tunnel Co. Esmeralda district, AJ simmons, Aurora
United States, gold and silver, V
Union, silver, Nevada 'I'erritory
Utica, gold and silver, Calaveras Co.
Uncle Sam, gold and silver, Silver Mountain, T J Owens, 1 Armory Hall
Union No. 2: gold and silver, Reese River district, J A Drinkhouse, 228 Frout street.
Union, gold and silver, Russ district, J B Russell, 410 Montgomery street
Utah Consolidated, gold and silver, Reese River district, T Brownjohn, 621 Clay street
United Ledges, silver, Humboldt district, E Flanagan, 8 Naglee's Building.
United Ledges, gold and silver, Silver Hill district, E Fianagan, 8 Naglee's Building.
Virginia Hill, gold and silver, Virginia district, H Butenoss, Virginia City.
Vibbard, gold and silver, Esmeralda district, Jas Neary, 320 Clay street.
Villarino Mining Co. Lower California, J D Creigh, cor Montgomery and California.
Virginia Rogers Mining Co. Nevada Territory, E B Holmes, 712 Montgomery street.
Vulcan, gold and silver, Coso district, J H Grger, Marchant st., Montgomery Block.
Vesuvian, gold and silver, J P Nourse, Lucas it Turner's Building.
Veatch, silver, Simpson's Park, E B Holnies, 712 Montromery street.
Venus, gold and silver, Buena Vista district, J L Pool, 540 W ashington street.
Victor Hugo, gold and silver, Humboldt district, E Flanagan, 8 Naglee's Building.
Victoria, gold and silver, Esmeralda district, I' Brownjohn, 621 Clay street.
Washoe, gold and silver, Gold Hill district, D A Jennings, cor Jackson and Front. Washoe Manufacturing and Mining Co. Marysville.
Wide West Mining Co. Esmeralda district, Coll Dean, 325 Montgomery street.
White \& Murphy, gold and silver, Virginia district, J P Nourse, Lucas \& Turner's Bdg. White Cloud, gold and silver, Virginia district, L A Stanchfield, 605 Montgomery street. Willow Springs, gold and silver, Coso district, J H Sayre, 224 Montgomery street.
Wyoming, gold and silver, Esmeralda district, P B Oppenheim, Aurora.
Wm. Penn, gold and silver, Devil's Gate district, Henry Toomey, cor California and Mont. Washington, gold and silver, Slate Range district, W H Clark, 224 Montgomery street.
Winnemucca 1st Extension, gold and silver Silver Hill district, J T McMahon, Silver City. Worden, gold and silver, Monitor district, C H Wakelee, 612 Merchant street.
Winashick, gold and silver, Coso district, V C Post, Lucas \& Turner's Building.
Washington, gold and silver, Great Eastern Ledge, L F Yates, Virginia City.

## Washington, gold and silver, Great Eastera Ledge, L F Yates, Vi Wilson, copper, Garden Bar district, Geo Bowes, 610 Clay street.

Wilson, copper, Garden Bar district, Geo Bowes, 610 Clay street.
Washington, gold and silver, FI Dorado Canon, TT Murphy, Virginia City.
Wm. Penn, gold and silver, Monitor district, A L Chamberlia, 413 Montgomery street.
Wasson Consolidated, gold and silver, Reese River district, J Herrick, 606 Montgomery. Washington, g, s and t, Boiling Springs district, C Gardner, 3 Barron's Building.
Wisconsin, gold, Virginia district, Jabish Clement, Metropolitan Bluck.
Wm. B. Astor, gold and silver, Gold Hill district, J'T Steele, Virginia City.
Warren, gold and silver, Excelsior district, Wm V Garvey, 619 Merchant street,
Washington, copper, Tuolumne Co. H L Brooks, Government House.
White Cloud, gold and silver, Star district, T J Owens, 1 Armory Hall.
Wyandott and Chrysopolis, gold and silver, Garihaldi district, E Flanagan, 8 Naglee's bdg
Winters, g \& s, Argentine D strict, C W Jones, 32 and 33 Montgomery Block.
White Horse, g \& S, Humboldt county, H S Dalliba, 604 Montgomery street.
Young Wnnemucca, gold and silver, Esmeralda distr ict, _Aupora.
Yellow Jacket, silver, Gold Hill district, Li Caldwell, Gold Hill,
Yreka, gold and silver, Esmeralda dis'rict, $C$ W Curtis, 606 Montgomery street.
Yarborough, silver, EI Paso district, E Barry, 636 Sacramento street.
York River, gold and silver, John Gorman, 423 Battery street.
Young America Ocher, gold and sil ver, Amador Co. G J Turner, 606 Montgomery street.
Zephyr, gold and silver, Lyon Co. N. T.

Wealith of Gold Hrll, Sonora County. We clip the following from the "Sonoraz
Flag," of July 30th. "Under the energetic and capable superintendence of N. P. Turner, Esq., the Gold Hill quartz mines, immediately in this city, are developing astonishing wealth. We saw Mr. Turner with a tubfull of rocks-the richest we ever sawwhich were over half gold. Some had been broken with the pick, but so completely was it interboand by fibres of gold, that the fractured pieces refused to come apart. A
'breakdown' in the mine, day before yester'breakdown' in the mine, day before yester-
day, displayed the shining particles, on both sides and above the drift. The shaft is in the immediate vicinity of the place where the prodigious strike was made, a few years ago, and is actually on the same vein. The owners have about as good a thing as they want,
and refuse to let any of the -stock go into and refus

Rior.-We saw a small silver brick, the past week, weighing 6 oz , taken by Varney, from 50 ths. of average rock from the Miuna del Norte mine, situated in San Antonio District, Lower California, about 20 miles from Ventana Bay. This is a newly discorered mine, located by a San Francisco Company. The rock thus tested by Mr. Varney, was a fair average for arastra working.

Remotal.- Messis. Gallagher, Weed \& Co. have removed their Brass and Bell Foundry from their late stand on Oregon St., to 125 Front Street, opposite Minna, where they are prepared to answer all orders in their

Scpport Hone Manufacteras.-All home manufacturcs have an interest to us, simply because every article thus brought into our local market is an addition to the wealth and
importance of the State. For this reason we importance of the State. For this reason we
beg of our numerous readers to pay a visit to the trank manufactory of Mr. James Longshore, under the Tehama House, Sansome street, where they will find the best workmanship, and cheapest goods of the kind, in the city.
New Orfice-Messrs. D. C. Williams \& Co., Mining Brokers, have removed into their fine new office, No. 605 Washington street, be-
tween Montgomery and Kearney tween Montgomery and Kearney Sts.

Ratroad House, -Our personal friend, Mr. H. T. Furton, has lately purchased a
half interest in this Establishment. From considerable acquaintance with Mr. F., we know no man, more capable of "keeping a management, the Ranlroad Housc is second -to none, in all the requisites of comfort and
convenience, and we trust nur numerous patrons in the country, will be advised by us, and on visiting San Francisco, give it a trial.

We append in the following supplement,
a list of Miars to which we have not yet obtained the names of Secretaries, and to a very large extent, even the locality of the mine is not known to us. They will be placed in the preceding Catalogue as fast as the neccessary data can be obtained. The attention of Secretaries and other parties in-
terested is colled to the deficiency alluded to

Alcyon, g \& S, Big Creek District.
Aladin, g \& s, Snokey Valley district Apollo, $g$ \& $s$, Reese River district. Aihambra Hill, g \& s, Summit district. Arch, $g$ \& s , Silver Mountain district. Atlanta, $g$ \& $s$, Devils Gate district. Alba Nueva, silver, Humboldt county Alpine Cupper Co., Cuntra Costa county Adelaide Con., silver, Colorado, N T' Apache Chief Mining, Co. Arizona Antiquarian, g \& S, Smoky Valley Altaville Quartz Mining Compary, Calav. Co Astor, gold and silver, Lander county. Atlanta, gold and silver, Lander county Apollo, gold and silver, Amador county Admiral, gold and silver, Humboldt county Austio, guld and silver, Reese River district Au-tria gold and silver
Albany, gold and silver, Devils Gate district Atlantic, gold and silver Contra Costa coun. Anderson, copper, Contra Costa county
Anacoluthon, gold and silver, Colorado Anacoluthon, gold and silver, Colorado distr Albeus, silver,
Bunker Hill, gold and silver, Lander City Boo, gold and silver, Silver Mountain Big Giant, gold and silver, Lauder county Baltimore, gold and silver, Silver Mountain Black Ledge, gold and silver, Reese River
Bulivia, gold and silver. Gold Hill Bulivia, gold and silver. Gold Hill
Belfast, gold and silver, Devils Gate Beujamia, gold and silver, Devils Gate Bright Star, silver, Reese River
Bull Run, copper, A mador county Blue Mountain Peak, g \& s, Calaveras co Blumenthal, gold and silver, Smuky Valley Bons, gold and silver, Coso district Bald Lagle, gold, Nevada county Bryan \& Watson, gold and silver Lander co. Bunker Hirl, gold and siver, Reese River Brown, gold and silver, Amador county
Bamboo Chief, gold and silver, Amador Bamboo Chief, gold and silver, Amador
Bell \& Baldwin Tun and M Co, Ilsmeralda Bodie Mammoth Tun Co, Bodie district. Bay City, gold und silver, Cluyton district. Blue Jacket, gold and silver, Devil's G Dis. Blue Dragon MCo, State of California. Beard d Seavy, gavd s, Reese River Dist.
Bald Moantain, g and s, Tuolumne County Bald Mountain, g and s, Tublumne County
Baia Califoruia, gold and silver, Iower Cal. Ben Franklin, silver and copper, Mt. Diablo. Baker, copper, Whiskey Diggings.
Banner, g and s, Humboldt Co. N T Buden \& L rkin, silver
Bellingham Bay, coal
B B Mi ing Oo. Esmeralda
Bunker Hi
Qtz, Califurnia
Badger, gold and silver, Humboldt Co. Calaveras, silver, Silver Mountain district Comstock, gold and silver, Alpine d, dm C Clara, gold and silver, Inyo district
Capitula, gold and silver Uvas distric Uoquette, g, s and cop, Clayton district Claresey, g and \&, Palmyra district Chifronena Mining Co. Sonora, Mexico Chapar al Hill, M Co. Calaveras Co. Copper Hill M Co. Del Norte County.
Clear Creek, silver, Humbuldt County, N T
California, $g$ and s, Humbuldt County, N T Coronilla, g and s, Sonora Mistrict Caxton, gold and silver, Virginia district Colegrove, gold and silver, Virginia district Clay street, e and s, Red Mounlain, N T Cincinnati, silver, Reese River
Chollar Mining Co. Yuba County
Cleopatra, $g$ and s, Lander Co.
Cosmopolitan, copper, Calaveras County Campbell, gands, Gold Hill
Cyprus Mining Co. Gontra Costa County
Chilpanzingo, Guerrero, Mexioo
Copper Age, g and s, Coatra Costa County.
Copper Age Mining Co. Clayton district Columbus, $g$ and $s$, Reese River
Casata, silver, Sinaloa
Carson Hill, g and s , Calaveras County. California, silver and copper, Mount Diablo Coustitution, silver and copper, Mt. Diablo
Caledonia, coal, San Mateo County
Comstock, g and s , Lower California
Chrysopolis, $g$ and s, Inyo district
Colima, gold aud s, Blue Mountain

Dawn Farm Quary, Devil's Gate district Diaua, gold and silver, Reese River Don Juan, gold and silver, Esmeralda Dowd, gold and silver, Lion County
Dundas, goll and silver, Devil's Gate Dundas, gol't and silver, Devil's Gat
Defiance, gold and silver, Gold Hill Delfina, cupper, Sonora, Mexico Dexter Miaing Co. Silver Butte district Diamond, gold and silver, Reese River Del Norte Comstock Co. Del Norte Co Dublin, gold and silv er.
Dabuque, gold and silver, Galena district Duchesno, gold and silver, Sacrameuto Co Douglas, gold and silver, Lander Oo Daylight, gold and silver

| Diana, cupper, Del Norte Co |
| :--- |
| Excelsior, |

Excelsiur, gand s, Reese River
D1 Dorado, gold aud silver, Silver Mtn dis
El Dorado, Con. g and s, Devil' Gate dis El Alamo de San Antonio, S Antonio, LsO Express, g and s, Devil'd Gate district.
El T'aste, silver, Sonora, Mexico
Eugene L Sulivan Mg co, Sian Francisco co Elle y, silver, Smoky Valley
Eclip e Tuanel co Humboldt co
Cast Range, $g$ and s, Huubbuldt co
Lxpres: Minaning co, Muss district
Eureka and Elizabeth Con. s and e, Oal. co Empire Mining and Tun. co, Humboldt co, Emigrant No 2, g and s, Lyon co Eelipse Mining co, Reese River Ella Francis, Esme alda
Eastern Star, Tholumne co
Fedrral States, $g$ and s, Esmeralda
Franklin, g and s, Lander co
Frank, g and s, Amador co
Excelsior, gold and silver,
Emanuel, gold and silver.
Eastera, gold and silver.
Exile, gold and silver.
Eurekd, gold.
Eupire, silver.
Eureka Coal Miniog Company.
Emma Antoinette, gold, silver and copper Excelsior No 2, gold and silver.
Eureka Shafer Consolidation Mining Co. Eisperanza, gold and silver.
Freyberg, silver.
French, gold and silver.
Fountain, gold and silver.
Figaro, g and s, Amador co
Flor Nightingale, gold and silver, Esmeralda Fairchild, e, gold and s, Spring Valley Forest Queen, gold and silver G Mugul dis Florida, gold and silver
" 420 " Mining' co, V'irginia district
Fusi Yama, g and s
Fid lity, $g$, $s$ and $c$, Contra Costa co Favorite Miniug co, Virginia district Great Eastern, g and s, Sillyer Monntain Gov. Downey Con. $f$ and $s$, Humbuldt co G ld Bluff Mining co, Humboldt co Geo. Washiurton, g and s, Oro Fino dis Gen. Hill, silver, Summit district . Great Chieftain, g and s , Lauder co Grey Ledge, $g$ and $s$, Calaveras co Granite Cop. Mining co, Contra Costa co Gem, $g$ and s, Sierr'a district

## Grisson Con. Arizona

Great Eastern, g and s , El Dorado Canon Great Republic, g, sand c, Contra Costa co Grosh Con. g and s, Gold
Gen. Jackson, gand e, Lyon co Great Con. of Eismerald $4, \mathrm{~g}$ and s , Mono co Governor, g and s, San Bernardino co Gen. Wright, $g$ and $s$, Devil's Gate district Golden Era, gand s, Reese River Great Basin Miniog, Nevada T'erritory Goldeu Gate, copper, Contra Costa co Gopher, $\mathrm{c}, \mathrm{g}$ and s , Calaveras co
Geu. Kibbee, g and s
Garabaldi and Belvidere Con. g, s and e Garratt and Grant, g and s , Esmeralda Great Central Mining co, Weaver dis. A T $\mathbf{T}$ Golden Ark, $g$ and s, Mariposa co Hancock, g and 8, Amaeor co Horn, guld and silver, Russ district. Honest Miner, Reese River
Humboldt T'unnel Nevada Territory
Mumboldt Tunnel co, g and s, Esmeralda
Healy Con. g and s, Lander co
Hubson Con. cop. miningeco, Santa Clar co
Hydraulic mining eo, Contra Costa co
Harris Bros. gand s, Blue Mountain
Hope, g and s, Recse River
Haval, silver Sinalon
Harriet Lane, g and s, Nevada Ter
Hooker, $g$ and $s$, Hurnboldt co
Herse Shoe, silver and copper
Hcrse Shoe, silver and copper
Hutchinson, gold, silver and copper
 Humboldt lireat C onsuls
fluward, wohld and silver.
Healy, gold and silver.
feadependturee, gand s, san Francisco dia Isobel, mold and silver, La I'az Hhavio, gold and sitver, silver Mountain dis Inpresalun, guld and silver, Garden Bardis Inyo, gold and silver, Inyo district 1 II L, gold and silver, Silver Mountain dis lutrepid, gold and silver, Yuba Co. las Ledge, gold and silver, Devil's Gato dis Indepenatent, yolla and silver, Annadur Co. Ida Mill and Sinang C' O. Owen's River Indiau Vulley, or lifund silver, I'lumus Co. Ha, puold und silver, Lower Califurvia J C' Fremont, gold and shlver,
Jura, gold and silver. Gold Hill Jura, gold and silver. Gold Hell Jou lame, gold and silver, Keese River Jom. gold and solver, Fismeralda Seffiersun, gold ind silver, Reese River Julia, guld und silver
Janesvillo, guld and silver, El Dorado Co. Jeflorsuni Gulena, $g$ and $s$, Flumus Co. Kulinuor, $g$ and \& Big Creek district Kate Oliver, gold and silver, Argeutne dis. Kinsman, gold and silver, Bamta Clara Co. Kelsey, roll and silver, 1: Durado C'o. Kulder, ruld and silver. Ruese River
Kickerbocker and Monumental Consolida. tion, gold and silver, C'untra Custa
Lake Superiur, eppper, sianta Clara
Lone Star, gold and silver, Silser Mountain Lacky Star, silver, Silver Mountain Lunar Consulidation, g and s, Fsmeralda Lembux, g and s, Slug Ginleh, E! Durido Co Los Angetus \& Mexican Cun. Culorado di
Lancuok Mill and Mining Co. Storey Co. Ia Sinaloa, silver, Sinaloa, Mexico Leo, gold and silver, (iuld Hill La Liburtad, silver, Sinaloa, Mexico Lacy EHa, gold and silver, Gold Hill Lauder Silver Ledge C. Reese River Lady Bell, gold, Del Norte Co. Lightner, gold and silver, Reese River
La Candeluria, silver, Lower Calitornia La lanvena, gold
Laulscape Mining Co. Contra Costa
La Baena Fortuna, silver
La Libertad, gold and silver, Lower Cal. La Candelaria Mining Co. Durango Lanchu Plana, copper, Amador Co. Liverpool, gold and silver, Humbolat Co. Lake Water, lismeralda and Bodie Mountain, gold and silver, Aınador Co. Mountain, gold and silver, Silver Mountain Manchester, gold and silver, Amador Co. Metropolitan, guld and silver, Amador Co. Mountain Glen, gold and silver, Big Creek Magdalena, gold and silver, Esmeralda Minnie Lota, gold and silver, Esmeralda Muna, gold and silver, Devil's Gate district Mineral Mountain, g and s, Calaveras Co. Monte Albano, gold und silver, Esmeralda. Mountain View, gold and silver, Calaveras Monitor, gold and silver, Amador Co. Metropolitan, gold and silver, Monterey Co. Mystic, gold and silver, Gold Hill Martinez, gold and silver, Reese River Morning Star, gold and silver, Reese River Munitor, gold aud silver, El Dorado Canon Magnolia, gold and silver, 'I'uolumne Co. Moscow, gold and silver, Fsmeralda Malta, gold and silver, Nevada I'erritory Melones Creek, gold and silver, Calaveras C McMahon, gold and silver, Devil's Gate McClelland, gold, silver and copper, Nevada Moselle Mining Co. Last Chance Hill Morning Star, gold and silver, Clayton dis Maxwell Creek, gold
Mulnight, gold und silver
Mammoth, gold and silver, San Bernardino Mosquito Quartz, Calaveras Co.
Mandolin, gold and silver
Monumental, silver
Mission Dolores Mining Co. San Francisco Montezume, gold and silver, Contra Costa Mountain Queen, gold and silver, Reese Rive McGregor, guld and silver, Silver Mountain North Central, gold and silver, Big Creek Napa, gold and silver, Silver Mountain Nelson, 1nyo district
Niagara, gold and silver, Tuolumne Co. Napoleon, gold and silver, Smoky Valley dis North Transit, g and s,
New World Consolidated, $g$ and s
New Gold Hill Mining Company
New Emmett, gold and silver
New Antrim, gold and silver

Nonpariel, ruld and silver
Xuonlay, gold, silver and copper Xorth, Star, folt, , itver and copper
Xewsum. gold and silver. Wevil (trate dia Naensari. 5.8 and $C$, , ionum, Mexico Nouh Webster Miniag Co. Humboldt Co. North Star Consilidation, grand s, Cuso dis Norman, gold and silver, Amador Co.
No llus Cltra, trold and silver, Clayton dis National gold and silver
Nuestro Senora del Refuglo, s, Sonora, Mes Niugara Con. gold and 8, RII Iorado Canon Natividud. gold and silver, Reeso Rirer
Ne Plus Ultra Con. Mining Co. Arizona Ni vada Gold Quartz, Nevuda Co.
Original Gould \& Curry, g and s, Silver Mtn Osceola Hill, silver, Summit district
Ossian Copper uining co, Calaveras co
Ophir and Inburn Con. gand s, Placer co Old saxon mining co, Virginia dis Oxfurd, silver, Thelumne co Ohio, $g$ and s, Devil's Gate Ottawa, g und s, Devil's Gate Ophir of the Colorudo, sil. Culorado dis Old Thirteen, $g$ and $s$, Silver Mountain Octornon, of and s. Reese River Oneida, g and s, Gudd Hill
Old Jubn Brown, silver
Oregon, Inyo dis
Ossifpere. $g$ and s. II Dorado co
Old Virginia. gold and silver
Olympia Mining Company
Oriental und Uccidental
Othello, gold and silver
Old Emmett, g\& s
Old Antrim, $g$ \& $s$
Original Savaye, $g, s, \& c$
Ochen Mill \& S M Co.
Oxford, gold.
Ottawa, g \& s
Peck \& Rowell
Peck \& Rowell Mining Company
Plumas Mining Company
Peck, gold and silver
Peck, gold and silver
Pe, u Miuiug Company
Peru Miuiug Compauy
Pine Bush, $g$ \& S
Passaic, g of s
Pond, Consolidated, g \& s
Prairio, $\%$ \&
Pactolus, g de s
Pine Bush, silver
Preh e, g \& s
Pennsylvania, $g$ and $s$, Silver Mountain
Phoenix, silver, Arizona
Peoria, $g$ and $s$, Amador co
Peacock mining co, EI Dorado co
Plocbus, g and s, Amador co
Progress, silver, Reese River
Palmetto, g and s, Coso dis
Pioneer, copper, Contra Cocta co
Pacific Copper mining co, Det Norte co
Proserpine, $g$ and $s$, Weaver dis
Puritan, $g$ nnd 8 , Devil's Gate
Puritan, $g$ and 8, Devil's Gate
Pennsylvania nining co, Bear River dis Patten, g and s, Humboldt co
Prima Donna, g and B, Amador co Potsdan Con. mining co, St Mary's d, N Pioneer Mill and mining co, Nevada Ter Panama Con. g and s, Smoky Valley dis Pyroide Union, gold, Contra Custa co Pacific, g and s, Lander co Pescalama mining co
Princess, $g$ and $s$, Hi Dorado Canon
Pilgrim mining co, Hsineralda Parker Tunnel $g$ and s, Esnierulda Platina, $g$ and $s$, Lyon co
Phoenix, g and s , malaveras co Paradise, $g$ and $s$, Humboldt co Prima Donna, $g$ and $s$, Devil's Gate Perseverance, copper, El Dorado co Quartz Mountain, $g$ and s, El Dorado co Queen of Sheba, g and s , Wazhoe Valley Rialto $=\rho \mathrm{m}, \mathrm{g}$ and s , Silver Mountain dis Rialto $=2 n, g$ and s, Silver
Rose, $g$ and g, Amador co
Rockwell, g and s , Ravenswood dis Rosario and Carmen mg co, Sinaloa, Kex Richard Hall, g and s, Lander co Rotbschild, $g$ and $s$, Sierra dis Rising Sun, g and s , Reeso River Rosario, g and e, Sinaloa, Mexico Riverside Quartz mining co, Tuolumne co Ross, g and s , Humboldt co
Reese River Ophirco
Rich and Rine Con. g and s, Esmeralda Rocky Bar, g and s, Esmeralda
Rosario, g and s , Lyon co
St Charles, g and s , Silver Mountain dis St Charles, $g$ and $s$, Siver Mo
Sonoma, $g$ and $s$, Lander co
Scundinavian, $g$ and $s$, Silver Mountain
Sheba Cent, $g$ and $s$, Humboldt co

Santa IKita mining cu, Simalua, Mexico Star of the Wirst, gand s. A mador co Savage No, 2, g and s. V irginia dis Santia C'lara Tun and Mr co. Fismeralda Sulver Prize, g and s, Silver Mountain dis Silver e'reek. f and s . Silver Monntain dis S Valley Foge g and \&, Lander co San Francisco IBay co, San Francisco San Antonio Chequito, silver, C hihuahua San Gabriel, gold and silver, La Paz dis Shrader, g and s, Russ dis
Sophia, g and s, Bald Mountain
Sun Francisc, Argentine dis
Southern Light, g and s. Reese Riqer
Sir Edmond, g and s, Devil's Gate dis
Shay, Ig and 8 , Devil's Giato dis
Spartan, g und s, Humb. ld co
St Andrews, g and s, Lyon co
San Fruncisco mining co. © armen Island
Seneca mining co, Virginia dis
Sierra Valley, g and s, Plumes co
sau Patrictu mining co, Carmen 1sland
San Patricto mining co, C'armen
Suerto, copper, Carmen Island
San Fernando Qtz Mill \& M co. Slate Range
Sutter Creek, gand s, Amador co
St Charles, $g$ and s , Reese River
Salamander, $g$ and s, Coso dis
Star of Hope g and s , Silver Mountain
Spring Lode, gand s, Esineralda
Silver Butte Con, silver
Santa Barbara, g and s, Los Angeles co Seneca, goid and silver, Fismeralda
St John, gold und silver, Humboldt diitrict Smith O'Brien, gold and silver, Lyon coanty Southwest Con, $g$ and 8 , Colorado district Sigel, gold and s lver, Calaveras co South Genessee mining co, Lyon county Sun Juan co. Humboldt county
San Bernardino, g and s, Sau Bernardino co Sebastopol, Silver City dis
South Chihuahur, g and s, Esmeralda
South Sacramento, gold and silv, Cedar Hill St Mary's, gold and silver
Star, gold and silver, Lyon county San Francisco, $g$ and $s$, Culaveras co Si rra Madre, $g$ and s Santa Cruz Petroleum Oil M co Spencer, $g$ and s, Humboldt co Sarah Frances, gand s, Cal. and Nevada Santa Clara Coal co
St John, Coal co, Cal. and Nevada
Dalliba, 604 Montgomery st.
San Pablo, gold and silver.
San F'rancisco Tunnel \& Mining Company. Sierra Nevada Gold Quartz Mining Co. Seely, gold and silver.
San Anto io, Mining Company.
Scottish Chief, gold and silver.
Settiug Sun, gold and silver.
Summer, gold und silver.
Sanny Italy, gold and silver.
St. Francis, gold and silver.
Silver Circle Mining Company.
Silver Moon, gold and silver.
San Dimas, gold and silver.
Selleck, coppur.
Santa Barbara, gold, silver and copper.
San Mateo, Coal and Plaster.
South Locomotive, gold and silver.
San Marcial, grold and silver.
Stanislaus, copper.
Sacramento, gold and silver, Humboldt Co. Star of Einpire, gold and silver, Marip'a Co. 'I'towah Tuvnel Company.
'rilly Tunnel and Mining Cnmpany.

## Tajo, guld and silver.

T'ecoripa Mining Company.
'terra del Fuego, gold and silver.
Thunderer Ledge, gold and silver.
'Tam O'Shanter', gold aud silver, Esmeralda.
T'ellurium, gold and silver, Amador Co.
Thompson, gold and silver, Silver Mountain, Teutonia, gold and silver, Gold Hill.
Tirita, silver, Sonora, Mexico.
Tip Top, gold and silver, Silver Mount', Dist. Toronto, gold and silver, Devil's Gate Dist. Tonawanda, gold and silver, Oolorado Dist. Telegraph, gold and silver, Excelsior Dr-trict.
r'hompsons, gold and s'lver, Simpsou's Park. Tecolota, silver, Durango, Mexico.
T'ennessee, gold and silver, Echo District.
Twilight Tunnel Mining Co, Gold Hill.
Tallulah Mining Company, Humboldt Co.
'T'ennessee, gold and silver, Coso District.
Torrid Zone Con., copper, Amadr Co ${ }^{\circ}$
Union of States, gold © sil'r, Santa Ulara dis.
Union Thirty Four coppe Amador Co.
Umpire, gold and silver, Humboldt County.
United, copper, g and s, Contra Costta Co.
Upper Lander, gold and silver.
Vivian, gold and silver.
Vivian, gold and silver.
Vesurian, gold and silve

Valparaiso, grald.
Valle, gold and silver, Gold Inll.
Virginia Mining Company, Carson Hill.
Vesta, Mining Compuny Lander Co.
Fiejo, gand s, Lynn County, N. M.

Wiscunsín Tunnel C'ompany.
Webster, gald and silver.
Whitman, gold and silver.
Weehawken Mining Company.
Weaver, copper and silver.
Walrath 'Tunnel and Mining Company.
Weat Puint Blua Morntian Misiug Co.
Wangaman Mining Company
Wangaman Mining Company
Willamette, gold and silver
Yuung America is F M Co.
Washington, g and s, Lander Co.
Wisconsin, gand s Silver Mountain Dist.
Waukasin, $g$ and s Inyo District.
Washington, $g$ and s , A mador county.
Wimona, ${ }^{6}$ and $s$, lismerulda
Wide West, g and e, Ievil's Gate
West End, g and s, Amador co
Whiting, $g$ and s, Devil's Gate
Waitt Cou., g and s, El Dorado Canon
Wilson, g and s, Echo dis
Waluce, $g$ and $s$, Indian Valley dis
Washoe Val Mam M Co, Sinoky Valley
Winnemuck, g and c , Amador co
Woulsey, g and s, Gold Hill
Young Aımerica, $g$ and s, San Francisco co Yuba, g and s, Yuba
Ypsilanti, gold and silver.
Young Antrim, gold and silver.
Zurita, g and s, Virginia dis

## Zouave, $g$ and

Mr. Edryor,-I see in your number of last week a notice that "the editor is absent," and in the same columa, (page 4,) a letter from your correspondent " $P$." which implies
that uthers, also, are at times "absent." I that uthers, also, are at times "absent." I
think that your proof reader must be answerable for the assertions in reference to No 2 and No 4 Sulphide of Ammonium and chromate of Potash, although not commonly effects spoken of, but the absence of a precipitate with nitrate of silver is the test for chlorate of potash as to its freedom from chloride. Some statements however of the properties of hydrochloric acid seems, to imply 'absence" elsewhere. A. Poor Chemist.
"A Poor Chemist" is correct in his surmises, and we owe our correspondent "P." an apology for the errors which we unintentionally allowed to creep into his communication.

Dry Crushing. - Mesers. Hotaling \& Wheeler have recently invented and put in practical operation, at the Miners' Foundry, in this city, a battery of four stamps, designed for dry crushing. The battery, though quite a light one, is capable of reducing to an almost impalpable powder about four tons in twenty-four hours. We have neither room nor leisure this week to give this new improvement the description and notice which its importance demands. We shall endeavor to do full justice to it in our next issue.
Our Trip to Copperopolis.- We have been so incessantly employed, since returning from Copperopolis, in preparing our enlarged Mining List, that we have had no time, whatever, to write out the notes taken on that trip. We shall endeavor to commence their publieation, however, in our next issue.
An ingenious fellow is selling photographs of postage stamp size, with gummed backs, to be used as prima facie evidence of ownership when applied to "portable property."
Excellent clay for fire bricks, crucibles, and cockery, has been found in mining tunnels near Gold Hill, and a porrery has been established at Virginia.
New Copper Discoveriss.-Rich discoveries of copper have been made near Cloverdale, in Sonoma county, and a new mining district formed. We were shown specimens of ore on Saturday which show indications of of ore on Saturday which a permanent ledge; the copper appears of very fine quality.
One firm of hardwaremen in Virginia have paid $\$ 37,386$ freight on $946,376 \mathrm{tb}$, hauled in wagons from Sacramento, at a price of about four cents of Hb .

# GEO. W. CHAPIN \& CO. EMPLOYMENT DFFICE A.ND <br>  

Furnish Employment for, and supply all kinds of Male and Female Help for MINES, SHOPS, RANCHES, HOTELS, FAMILIES, Etc., Etc. Also with the above give attention to

# BUYING AND SELIING <br>  

Of every description, from

## Washoe, Mexico,

Humboldt, Colorado,

Esmeralda,<br>Slate Range,

Reese River,
Owens River.

## Ofince, Lower Side Plaza, Near Clay Street,

## sAXN 3FBrexycxsco.

OUR LIST OF MINING COMPANIES.
We have devoted nearly our entire issue this week, to our enlarged list of Incorporated Mining Companies. In order to make room for it we have been obliged to issue a "supplement" of four pages. The list, in its first issue must, of course, be quite imperfect we shall take especial pains, however, to render it as correct as possible for our next is sue. To this end we earnestly call for the co-operation of all parties interested. W shall endeavor, as far as possible, to wait up on them individually during the present week and receive suoh corrections, as may be need ed directly from their hands, Those Secre taries who may be personally interested in any needed corrections, and who may not be waited upon by Thursday or Friday, will confer a favor on us by handing in their correc tions at the office,-or forward them through the Post Office to our address.

We are fully aware of the importance of the publication of a full and corvect list of Incorporated Mining Companies in the State and especially of those having offices in this city, and we shall endeavor to meet this want to the best of our ability. We hope by next week, or the week after, at the fartherest, to be able to furnish our readers and the public with a list sufficiently complete and correct to warrant its transmission to friends at the East as an occular demonstration of the extent and progress of the mining interests in the State. The issue giving the complete list will contain some appropriate remark with regard to the character, importance and value of progressive and non dividend paying mines.

Rice.-We saw, ou Saturday last, the tan gible evidence of a very rich strike in the Rising Sun claim, Buena Vista District, Humboldt. This Iedge is located about three miles from Fall's Mill, and bids fair to develop a valuable mine.

Rumor says that Joseph Trench intends to build a large theatre in Virginia, and to em ploy Charles Pope as Manager.

## Washoe Correspondence.

The following is an extract from a privat etter dated Silver City, July 22, 1863, which was been placed in our hands for publication
According to promise, I continue my corespondence, and without further statement of personal matters than I gave you in my last, I will give, as near as I can, a clear idea of the state of things in the Devil's Gate Mining District, as I know you are anxious to receive information upion which you do me the honor oo say "you can.rely." I made a somewhat longer trip through the mines of this district than I had first intended to do. There is no diminution in the flourishing prospects of Nevada Ternitory, if I am to judge by the enterprise that actuates the community of gold seekers at and about Dayton and Silver City Lore mills continue to arrive and more machinery for newly developed mines, especially for Palmyra District. This newly discovered district has, within the last few months, made rapid progress. Mavy of the ledges have
proven far more valuable than any had supproven far more valuable than any had sup-
posed or even expected. Large capitalists, find, are daily investing large sums in this disrict, by purchase into various claims. Spring vork is continued night and -day. As you taken out is from a ninety foot shaft, and will are aware this valley was prospected three or pay over $\$ 200$ per ton. They have already
Cour years ago, although little was accom-commenced the tunnel so it shall strike the plished antil last year, when many old claims ledge two or three huudred feet deep. I beWere relocated, and, up to the present time, lieve the stock is all owned in San Francisco, astonished even the owners of the oldest and at from $\$ 40$ to $\$ 50$ per share. After an exichest claims, who originally have purchased amination of this mine I am satisfied it is not It is the impressiun foot. It is the impressiun, as you are arrare, with the opinion of its big neighbor, the Daney, many men that a claim is not worth buying people. Old hands working on the Danes unless it is held at large fiyures. But men of have been unable to tell Jewel ruck from their
capital here hare given the lie to this pre-lown when placed side by side. The company sumption by immense investments here. Here have also located three hundred feet on each is located the justly celebrated Daney mine, side, their tunnel covering several ledges o $\$ 300$ per ton.

If I owned but a few feet in it a competence|through which they have to pass. I speak would be insured to me. They have a fine thus explicitly of this company as they are to mill now ranning. Its erection cost them be considered next in reputation to the Daney, $\$ 60,000$; in three weeks running thereafter and becanse they show every evidence of the they cleaned up the neat sum of $\$ 63,000-\mathrm{a}$ truth of what I tell you, and will, I believe, paying investment that, was it not? That verify my words. I forgot to state that this gave an impetuss to mining operations, and a proposed Jewel tunnel runs through the Tennultitude of tunnels were run. Many have nessee ledge, which you remember my telling struck it very rich, with rock paying from $\$ 50$ you was bought up by some parties who

## the jewell company.

And here I may mention the Jewel Com any, located near the Daney, and promising to be equally if not more valuable. In many things it possesses superior advantages over the latter company. Last week a committee
from the Board of Trustees of the Jewel Company visited their mine- I had the plea sure of an introduction to these gentlemen and with them visited their location. They have purchased a mill site from Mr. Seares to erect a fifteen stamp mill thereon. The have also let a contract for running their tun ael. The mill is to be like that of the Daney Company, which has proved to be an excel ent one. This claim is on the Daney ledge nd prospects equally as well, if not better city in few days for reduction and test. The proprietors of the Daney speak in the highest terms of their little neighbor, the Jewel, for The Hawley Co. deserve notice also; they are situated near the Jewel, and are daily ising in favor here. They have a fine encine on the ground, which they put there at a cost of $\$ 7,000$. There are others I propose
to give you a statement of, such as the Minto give you a statement of, such as the Min-
eral Hill, Chrystal Palace, Mount Hope, etc. Rest assured, however, that a few months will prove this district of which I have here ritten to contain some of the wealthiest mines in the Territory. We have a new town laid out, Geneva by name, distant about one and a half miles from Silver City and three from Dayton. Ten or fifteen houses are already erected, and more begun. However, for further statement, you mast await my oext, and meanwhile believe that I have made these notices of these claims from actual observation, and am confident that I.have not even given you half as glowing an account of our mines here as they really deserve, or will prove themselves worthy of.

Yours Truly,
L. D. S.

A silver lode has been discovered near Indian Diggings, El Dorado county.
Several copper companies at Fairplay, EL
Dorado county, are taking out ore for ship-
nent.
The Virginia Enterprise is in favor of Washoe'as a name for the Silver State. It is moch better than that confounding, confasing, and nooriginal name of Nevada.
A brick-yard near Virgiuia has capacity to tnake 14,000 bricks daily. The price is $\$ 17$ per $1,000$.
There is some talk about establishing a
large private cemetery near Virginia.
VOI. VI. SAN FRANCISCO, MONDAY EVENING, ATGUST 17. 1863. NO. 42.

## COPPER DISCOVERIES IN CALIFORNIA.

Copper was discovered in the southern portion of this state rery soun after the first iuflux of gold seekers to the Pacitic Coust. Rich mines of this metal were found to exist at farious points to the East of Fort Yumi, in Arizona 'Terrifury, and also to the North, alung the Valley of the Culora7o. Some attempts were made, at an early day, to work the mines in Arizona. hat with little success in conserpuence of nulian troubles, the dificulties and expense of trumsportaion and the ligh price of labor. We are not aware that any further aftempts have been made. since that time, to work huse mines. Recent intelligence from the Colorado, howevr. warrants the belief that the copper interest of that region bill soon grow into considerable importance.
Copper was also discovered in Hope Velley, on the Eastmolupe of the Sierra, not far from the Placerville and Carson Valley road, if our memory serves us correctly, as arly a 1855. We have now in our possession a very rich pecimen of "peacock ore," taken from the "Cnele Billy Rogers Lead," and placed in our hands in 1856. We are ot aware that any considerable amount of work was done this vein until the present year, when it was re-located, nd regular mining operations commenced upon it, in a small ay.
copper discoveries in calateras county.
In the year 1855, Mr. J. W. Bean, of Copperopolis, who as residing some three miles north of the present Napoleon pper mine, picked up some specimens of what was no doubt arbonate of copper, from a ravine near his cabiu. He took em home, and on showing them to his partner, was greeted th the remark that " they were nothing bitt copperas rocks, be country is full of the stuff, and it isn't worth a d-n." r. B. threw his specimens out of the door, among some rabsh, and by that act parted with indications, which, had they fen followed up intelligently, would have led him to a forne, and placed the State of California five years in advance where she now is in her great interest of copper mining. Farly in 1860, Mr. Hiram llughes, who had been for some ars residing in the same neighhorhood with Mr. Bean, was tacked with the "Washoe fever," aud joined in the general sh, which took place in that direction in the Spring of 1800 , 8 soon as he arrived in the neighborhood of Virgiuia City Was so struck with the great similarity of the appearance the country there, with that where he had been so loug living, fong the foot hills of Calaveras county, that he made all ssible haste back and commenced prospecting for silver. e soon located for silver and copper, what is now known as e first discovered copper mine in Calaveras county, situated Quail Hill, No 1, about three miles north-east of the Naleon mine, and some six ar eight to the westward of Copropolis.
We had intended to have visited this locality during our ent trip to Copperopolis, but want of time prevented. . We pe to do so, however, at an early day. We understand it the locality is one of peculiar geological interest, quite similar from the surrounding country, generally, and giv-
ing most unmistakeable evidence of recent, intense plutonic
action. Mr. Hughes is working his mine for gold and copaction. Mr. Hughes is working his mine for gold and copper. The copper, we understand, lies in an intermediate strata, betwen two uthers which carry gold, with silver also to a considerable extent. The working fur gold is carvied on in the rainy season only, when water can be had for working -the freo gold being thus taken out and the "tailings" carefully presirwed for future reduction, lyy machinery. About 300 tuns of copper have been taken from the mine and shipped, chiefly carbonates, which have assayed an average of 25 per cent.
Mr. Hughes was also the discoverer of the now famous Napoleon mine, eleven eighteenths of which he sold for the sum of $\$ 22,000$. We shall hereafter have occasion to speak more fully of this mine.

The discovery of copper on Quail Hill soon became noised abroad, and parties from this city went op to enquire into it. Prospectors were very soon out in various directions, hunting for "indications."

Farly in the summer of $1860, \mathrm{Mr}$. R. B. Reed, having examined the ore at Huguhes mine, started out on a prospecting trip, in an Easterly direction from Hughes'. While passing through a long narrow valley, about eight miles distant from his starting point-a locality with which he had been long acquainted-he observed some croppings, which on close inspection, he felt sure were of the same character as those on Quail Hill. He gethered up some specimens, and retraced his steps, about four miles, to McCarty's cabin, a well known stage stand on the Stockton road, where he submitted them to Dr. Blatchly, of this city, who had recently been attracted to that place by the fame of Hughe's discovery. The Doctor being something of a mineralogist, at once pronounced the specimens copper of most fattering indications.
Read, McCarty and Blatchly started out early next morning, and located and staked off for thernselves and friends all the ground now embraced in the Union, Keystone, Consolidated, Empire and Calaveras claims-11,250 feet. A large number of sacks were filled with the croppings of carbonats, which were gathered from the surface. The first work was done by $\mathrm{Dr}_{1}$. Blatchly, at what is now known as the Discovery shaft, upon the Keystone mine. The Doctor obtained good shipping ore at a depth of 25 feet. Mr. Reed soon afterwards commenced work upon what is now the Union Company's ground, and obtained good ore at about the same depth with the Doctur. The first ore shipped from this mine assayed, in this city, 30 per cent. It may be a matter of curious interest to some to state that the first work ever done on this mine was the sinking of a small prospect hole, three or fuur feet deep, by Mr. McCarty, somewhere about 1852. This small excavation may still be seen a few feet to the rest of the Keystone Company's office. The opening was made in search of gold, but without success. The prospector however, has since been rewarded by a most ample fortune made out of the same gronnd, but from a mineral of another character. It may be recorded as a matter of some what unusual occurrence, that all the parties directly engaged in these early
and valuable discoveries held on their ground long enough to become independently rich. In our next issue wo shall grive some acconat of the prugress which has keen made in the development of these mines.

## OUR MINING STOCK COMPANIES LIST.

We hope to be able to place before our readers, in our next issue, a full and corrected List of the Mining Sturk Companies haring offices in this city, and, to a large extent, lucated in other parts of the Pacific coast. We have already corrected a great number of errors in our last, and made many additions. We have devoted to this work almost the entire labor of three men during the past week, and we yet find much to do. A more general co-operation of Mining Secretaries, would greatly facilitate the work. While we cheerfully acknowledge the generous and willing aid of some, we regret to say that there are others who appear to take but little interest in a work which is of such evident importance to the entire mining community. We trust that all such, after our next issue, will realize the importance of the work, and hereafter lend a more willing hand in aid of our efforts in this direction. Single copies of the issue containing the Directory, will be furnished gratis to all of our regular subscribers, and additional copies will be supplied to such at the regular subscription price. Twenty-five cents per copy will be required of non-subscribers, for that issue. Persons interested in the development of the mineral resources of California, can do mach in aid of that work, by purchasing and forwarding to their correspondents, at the East the index of this recent mineral developments of the Pacific coast. The record shows an extent of operations and evidence of mineral wealth truly calculated to arest and fix the attention of capitalists in the Kastern States and Europe. We shall send the proposed issue to the leading banker at the East and to all other prominent capitalists whose address may be at hand.
Our " Miners' Laboratory."-In our articles on "Silver" in our "Miners' Laboratory," we do not porpose to confine uurselves to what are strictly called silver ores, but intend to place before our readers, all the minerals contwining silver whether they are copper, arsenical nickel, cobalt, or autimonial ores.
It is also our purpose, after fully describing the ores, to place before our readers all the different processes employed in extracting the valuable metals, in various parts of the world, carefully and minutely detailed, 'and also, so far as we can arrive at them, all the Specifications of Patents, issued for such parposes in the United States and Europe.

Tue Horn tos Gold and Silver Mining Company, Mariposa county, are sinking three shalts on their rein, and at a depth of 28 feet are taking out decomposed quartz thickly studded with gold; togather with arsenurated Sulphurets, very rich. The Messrs. Goddard \& Co. have nearly completed a mill, for the company, of 20 stamps, with an engine of 50 horsepower

## TABLE MOUNTANN COPPER MINING COMPANY.

A large pile of sacks, containing copper ore, may be seen upon Montgomery Street, in front of No. 528 , which has recently been received from the 'lable Mountain Copper Mining Company's Claim, located some three or four miles to the southward of Copperopolis. The claim was lucated about two years ago, since which time considerabl- work has been done, but with no important rcsults, unlil about three weeks since, when a well defined lead of sulphurets was struck, narrow at the top, but gradually widening out, until it is now about two feet wide, with both walls well defned. Our cor respondent considers this development one of the best outside of the Union claim. This claim, we b. lieve, has gen erally been considered as on the same lead with the Keystone, Union, tte., and the appearance of the ore as seen upon Montgomery street, would seem to indicate that suci, is the fact-the general characteristics being similar and quite distinctly marked.

We understand that work is being prosecuted upon this claim with vigor, night and day shifts being i mployed. This, we believe, is the 5th claim in that locality which is now making regular shipments of ore, viz.: the Union, Keystone, Napoleon, Hughes and Table Mountain. The Calaveras Company has shipped considerable ore the past season, but operations on that mine have been suspended for the present.
Regular shipments will hereafter be made by the Table Mountain Company. That just received consisted of five tons, all taken from the main shaft, which is still going down. A drift is just being started, from which, and the shaft, the workmen will soon be able to take from three to five tons per day-increasing, gradually, from that amount, as the mine is more fully opened. The ore speaks for i'self, and taken in connection with the above facts with regard to the mine, warrants us in pronouncing this one of the most important copper developments in that interesting region. The Company is incorporated, Mr. M. G. Elwore, at 528 Montgomery street, being its Secretary.

## VIRGINTA CITY.

The Editor of the "Spirit of the Times,', in an editorial letter from "Silverland," speaks quite glowingly, yet truthfully, of the growth and prospects of Virginia City. We make the following extracts:-
The city of Virginia is the second city (in all those attributes which go to make up a great commercial and business emporiam) on the Pacific Coast. * * * Firginia has a growth of little over three years, and her record to-day is a history of itself. Her population is nearly double that of Sacramento ; is double that of Portland, Oregon; is four times as great as that of Stockton or Marysville. Taking in the population of Gold Hill, which stands in the same position to Virginia that Mission Dolores does to San Francisco, and we have at least twenty thousand inhabitants, and were the officers who take the census strict in the performance of their duty, I believe the number would be increased rather tban diminished. * *

Last year the taxable property of Virginia was in the neighborhood of $\$ 8,000,000$-this year, the Tax Collecter informs me, it will border close on to $\$ 11,000,000$, nearly double the amount. The assessment on this is $\$ 2,72$ on the $\$ 100$, of which thirty cents goes for school purposes, eighty cents for Territorial purposes, and the balance goes to meet the requirements of the county. This will give some little evidence of the wealth, rapid growth and stability of Virginia. * * * The amonnt of business done in Virginia is positively immense and astonishing; it never ceases and seems to grow by what it feeds on. In extent, value and constancy, it is more like a city of ten times its age and population. It is remarkable in all the phases it presents, and is another high (!) and enduring monument to the energy and enterprise of the American people. The completion of the Central Railroad to this Territory will make Virginia a gigantic inland metropolis, and, independent of that which $I$ have already seen, I believe that in five years from the present writing, by means of its own natural growth, in will be a city of forty or fifty thousand inhabitants.

The New Fork Post contains a list of 26 Banks organized under the National Banking law, wilh an aggregate capital of about $\$ 3,500,000$.

## CALIFORNIA COPPER SMELTING WORKS.

Editor Mining \& Scientific Press-Sir:-In your number of the 21st. inst., you were kind enough to give a notice of the "California Copper Smelting Works." Your remarks are correct in the main, and I take pleasure in giving you the subjoined further details which may be interesting to your readers.
The following are the rates and tarms on which the Company are now purchasing ores:
Ores assaying from 8 to 11 per cent. are purchased at the rate of $\$ 2$ per each per cent.

$$
\begin{array}{ccccccccc}
\text { Ores assaying } & 12 & \text { per cent. } & \text { at } \\
\text { O }
\end{array} \$ 25,00 \text { per ton. }
$$

A. ton is received at $2,3 \% 6 \mathrm{Hb}$, to be delivered at the Company's works at Antioch. Shipments may be made in bags or in bulk. If in bags, they will be returned. The land and water freight will be advanced by the Company, on the delivery of ores at the works, and payment made as soon as a satisfactory assay shall have been obtaincd.

The Califordia Smelting Works propose to bny their ores upon a different scale from that applied by other purchasers in in this city. When ores are shipped East or to Europe, the net assay is taken, but from one to two per ceat. is deducted and upon that produce the advance is made, and not upon the real per cent. as contained in the ore; but the California Smelting Company propose to buy upon the true amount in the ore. To illustrate :-From ore that will assay, say 14 per cent., any other parties here advancing, would deduct one and a quarter per cent. at least, and call it 123/4.
The Company will not confine itself to the purchase of ores low assay. Contracts will be made for all the ores a mine may produce, and the higher the assay, the greater will be the price per cent.; but it is obviously to the advantage of copper miners to sell their inferior ores to the Smelting Works, since they cannot be profitablly shipped to a foreign market; and the expense of concentration and the loss of metal attending on that process, will conterbalance any advantage obtained in economy of transportation, when concentrated.
Additional furnaces will be built, and due eapcity of the works will ba made to keep pace with the supply of ores.

Your ob't. ser't.,
Ralph Eaerson,
Secretary.
Tur Regent Rice "Strike" of the Opair Company.We learn form the Territorial Enterprise, through the Superintendent of the Ophir mine that since the discovery of the rich vein on the surface, back of the incline, some ten days ago, he has sacked and shipped to this city, about 5 tons of choice ore dailg. The largest day's work was 15 tons. The most of the stuff thus far has been valued at $\$ 2,500$ a ton, but some of it went infinitely higher than that; another clasis will pay $\$ 1,500$; and still another $\$ 3,000$. Over 60 tons of it, altogether, have been shipped since the discovery of the vein. The lead was stripped still further yesterday, and herealter the daily yield will be considerably over 5 tons. Within the past few days another vein has been found, some 20 feet further west, the ore from which assays $\$ 405$ per ton.

The Ebb Tide.-The travel from and to the Washoe and adjacent country is becoming equalized. The flow back upon us is steadily mereasing.

The " Clatis" or Reese River.-According to the Reese River Reville of August 1st., there were, at that date, located and recorded in that mining district (Reese river) about 1,300 different company claims. Nearly hall are seperate ledged. Mount Hope has about 75 companies ; Ravenswood, 85; Simpson's Park, 230; Big Creek, 350; Smoky, 300 ; Summit, 100 ; Saute $\mathrm{Fe}, 60$; Grass Valley, 15 ; Union, 20 ; Cortez unsnown.

Australian Gold Mines.-The gold mines of Australia have been gradually declining for the past five or six years. Their average for the past twelve years is set down at \$41,000,000 . These mines have gradually declined from their highest yield of about $\$ 75,000,000$ to a probable present. yield of not far from $\$ 25,000,000$.

Humboldt Mines.-The great riches of this mining distri is well known, and little need be said of it. We have fac in abundance, to substantiate this, from persons of undoubt veracity. Yet there scems to be a strong tendency, amo the mivers and people generally to content themselves wi prospecting and hunting up "big things," instoad of procee ing vigorously with developments. This is an evil that mil
be overcome. The mills are said to be comparatively id be overcome. The mills are said to be comparatively id
owing to this rush for new discoveries. A great lack of $\epsilon$ ergy is apparent. People seem to be acting apon the impry sion that selling a silver mine is a more expeditious mode acquiring wealth than working it, and accordingly the gTI anxiety seems to be to discover and "fix up" new leads the San Francisco capitalists.

There is no question but scores of mines have been open in that region, which will eventually be proven to be vi, rich. As it is, however, the hills and ravines are everywhy dotted with mere prospect holes, with here and there a fi hundred pounds of rock brought to the surface, where, inste the beholder should see large piles of ore at the mouths the tunnels and shafts, all ready for transportation to the mil Irue, much of the ore found in this district caunot be worl by the ordinary silver process, still there is an abundance ${ }^{1}$ ore there, or we are very erroneously informed, which cran worked-amply sufficient to afford the fullest employment the idle mills which have been erected there.
If miners would advance their true intersts, they should : deavor to develope their "feet," rather than to add, ind:nitely, where thousands already exist.

The local papers and correspondents of that region all ags in the above representations of fracts. Let the miners Humboldt delve into their hills with tunnels and shafts: they know how to do-let them bring to the light those; minerals as they can do-let them haul it to their idle mills take out from the ore the gold and silver bricks as they shi do, and, our word for it, they will soon place the frum mines in the front rank of mining localities on the Pa Coast. By so doing they will not only greatly advance th own interests, but add immensely to the productive weald the coast. A hundred feet fairly developed are worth th sands unimproved. A thousand dollars spent in develor a good mine is worth many thousands, scattered over au tire district, with no developments to prove it value.

Muce confusion is often created by the use of the terms r 4 and left banks of the river. Scientific writers use the te in reference to the position of a person descending the ri, This technical sense of the term is now well settled am geogarphical societies and scientific travelers. This has b fond the only way to give it any defnite meaning. Ri turn and wind so that nothing definite can be made or east, west, north and south banks. Travelers go up str and back again so irregularly, that none can know which ) is on their right hand or left at any particular time, ut they tell us, every time they use the word, which way are going.
Subscribe.-Ate you a miner and not a subserifoer to Mining and Scientific Press? If so, you are an an loser of many times the price of a year's subscription, ticularly if you are engarged in quartz mining. The $\varepsilon$ amount of practical information, important to miners rechanics, which is contained in a volume of the Press, not be bought from the shelves of any bookstore in the c
try for the price of several year's subscription. Do you send a paper to the "Old Folks at Home?" If so, ani desire to send important information and valuable re matter, you can find no paper that will be read with so it eagerness by them, or one that will convey to them a an account of the real industry of the country as the ing and Scientific Press. We invite all to send us names and four dollans, or two dollars for six months, become patrons of the only mining paper printed on thi cific coast. Those who receive a paper with this parac marked may understand that it is sent to them for exal tion, and with the hope that it may so far meet with approval as to Warrant their subscribing for it at once. six months ; but inasmuch as we are anxious to intrit the paper where it is not now known, we will, for the ent, send the Press for three months even, on the rece one dollar, in coin or stamps. It is our belief that no will wish to discontue the paper after being a constant yi or of it for even that short period.

| We appond the following list of companies, |
| :---: |
| hieh are kuwn to us by name only. The |
| cations of uflice and uames of the sucretaries |
| nown to us. We will add thos |
| a place them in our regular mining list, |
|  |

## Icyon, g \& S, Big C'reek District.

 hadin, gi s, Smukey Valley district Thambra II, ill, ig of g, Summit district ch, $g$ ot 8 . Silver Munntain district flanta, g de s, Devils liate districl. ba Nueva, silver, Humboldt county pine C'upper C'o., Cuntra Custa cunuty pache Chiof Mining, Co. Arizona ftipunrian, g dis, suroky Valley
## Ellery, silver, Smoky Valley

Ficlip e 'fumel en liuntmat eo Fitat Rance, If amts. Itumbthte co Reprres- Minininge eu. Rusis distriet Lureku and E:lizalietll ('mas. s and e, Cal. co Einterprise, or aud s, colorado district Fimpire Mini y and Tun. co, Humboldt co Emimant No 2, gand s, Lyon co Felipse Mining co, Revese liver Felipse Mining co, Revese River
Flor Nightingale, gold and silver, Fsmeralda Flor Nightingale, gold nind silver, Fisme
Fairchilh, e, gold and s, Spring Vuhry Forest Queen, guld and silver $G$ Mogul dis - $420^{\prime \prime}$ Mining co, Virginia district Favorite Miniug co, Yirginia district Girmu Fiastern, ir and s, Silver Mountain fiov. Downey C'on. g and a, Ifumbeldt co G ld Bluff Minung co, Mumboldt eo Gico. Wahhinglon, gand s, Uro Fino dis Cren. Hill, silver, Summit district Great ©hieftain, $y$ and s, lauder co Griy Ledge, $f$ and $s$, Calaveras co Great coni of Esmerald.s. $g$ and $s$, Mono co Guvernur, g ands, san Benardino co Gen. Wright, g and s, Devil's Gate district Giolden Era, gand s, Reese River Great Busin Mining, Nevada 'I'erritory Guldea Gate, copper, C'untra Costa co Gupher, c, g and s, Calaveras co
Garahaldi and Bowidere Con.g, s and c Giurratt and (trant,g and s, hismeralda Crreat. Central Mining co, Weaver dis. A T Hulson C'on. cop. mining co, Sasta Clar co Harris Bros. gand s, Blue Muntain Harriet Lane, g and s, Nevada Ter Hooker, grond s, II unboldt co
Hutchioson, gold, silver and copper Hearietta and sophia Mining Cop. Lower Cal ITirh P'eak 'Tumel and Mining Company. Humboldt Gireat Coneols Mining Company. Iudependence, g and s, San Francisco dis Isabel, guld and silver, La Puz
Illinois, gold and silver, Silver mountain dis Impression, gold and silver, Garden Bar dis Inyo, gold and silver, Inyo district 1 I L, gold and silver, Silver monntain dis Intrepid, gold and silver, Yuba Co. Ina Ledge, gold and silver, Devil's Gate dis Isabel and Agnes Land, $q$ and 3 , Humboldt d Independent, gold and silver, Amador Co. Ida Mill and Mining Co. Owen's River Indian Valley, g ld and silver, Plumas Co. Ida, rold and silver, Lower California I C Fremont, gold and silver, Silver Mount. Jura, gold and silver, Gold Hill Joulius, grold and silver, Reese River Foe Lince, gold and silver, Reese River Jum, gold and silver, Esmeralda Jefferson, gold and silver, Reese River Janesville, gold and silver, El Dorado Co Jefferson Galena, $g$ and s, PlumasCo. Kohinoor, $g$ and s, Big Creek district Kate Oliver, gold and silver, Argentıne dis. Kinsman, gold and silver, Santa Clara Co. Kelsey, gold aud silver, Kj Dorado Co. Kohler, gold and silver, Reese River Lake Superior, copper, Santa Clara Lune Star, gold and silver, Silver mountain Lueky Star, silver, Silver Mountain Lunar Consolidation, g and s, Esmeralda Lemnox, $g$ and $s$, Slug Guleh, El Dorado Co Los Angelos \& Mexican Con. Colorado dis Luacook Mill and Mining Co. Storey Co. La Sinaloa, silver, Sinaloa, Mexico Leo, gold and silver, Gold Hill Leo, gold and silver, Gold Hillat, silver, Sinalon, Mexico La Libertad, silver, sinaloa, Mexico Lander Silver Ledge Cu. Reese River Lady Bell, gold, Del Norte Co. Lightner, gold and silver, Rcese River Lia Candelaria, silver, Lower California Landscape Mininer Co. Contra Costa La Libertad, gold und silver, Lower Cal. La Candelaria Mining Co. Durango Lancha Plana, copper, Amador Co. Liverpool, gold and silver, Humboldt Co. Lake Water, Esmeralda and Bodie Mountain, gold and silver, Amador Co. Mountain, gold and silver, Silver mountain Manchester, gold and silver, Amador Co. Mountiain Gilen, gold and silver, Big Creek d Magdalena, gold and silver, Esmeralda Minnie Lota, gold and silver, Esmeralda Mineral Mountain, gavd s, Calaveras Co. Monte Albano, gold and silver, Esmeralda. Monte Albano, gold and siver, Esmeralda.
Mountain View, gold and silver, Calaveras Mountain View, gold and silver, Calaveras
Monitor, gold and silver, Amador Co. Monitor, gold and silver, Amador Co.
Metropolitan, gold and silver, monterey Co. Mysicin, gold and silver, Gold Itill Martinez, gold and silver, Recse River Muruing Star, gold aud silver, Reese River

Mngnolia, gold and silver, Tuolumne Co. Mascow, goll amilver, Rememaha Malta, zohd and alver, Xevada Territory
 Me.Mshmu, gold aml silver, Ievil's Gate McClelland, gold, silver und copper, Nevada Mosolle Minng Co. Tasst Chance Hill Morning Star, gold aud silver, Clayton dis Mammoth, grold and silver, San Bermardino Mission Dolors $\begin{aligned} \text { Mining ('o. San Francesco }\end{aligned}$ Muntezuma, grold and silver, Contra Custa Munntain Queen, guld and silver, Recse River McGregor, gold and silver, Silver mountain Nurth f'entral, guld and sitver, Big ('reek Napa, goldand silver, si lver mountain Napa, golidand silver,
Niagara, gold and silver, fuolumne Co. Nugava, gold and silver, Tuolumne Co.
Nupolen, gold and silver, Smoky Valley dis Nonpariel, gold and silver
Noonday, gold; silver and copper
North sitar, gols, silver and copper
Nucusari, g, e and c, Sonora, Mexico Noah Wobster Mining Co. Humboldt Co. North Star Consclidation, gand s, Coso dis Ne Plus Ultra, gold and silver, Clayton dis Ninestru Scuora del Refuglo, s, Sunora, Mex Niagara Con. gold and s, til Dorado C'anon Natividad, gold and silver, Reese River Ne Plus Ultra Con. Mining Co. Arizona Nevada Gold Quarta, Nevada Co. Original Gould \& Uurry, $g$ and 8 , Silver Mta Osceola Hill, silver, Summit district Ossian Copper mining co, Calaveras co Ophir and Anbura Con. g and s, Placer co Old Saxon mining co, Virginia dis Oriental and Occidental Consolidated, g \& Pennsylvania, of and s, Silver Mountain Pacific, Copper mining co, Del Norte co Peunsylvania mining co, Bear Rever dis Pr ma Donna, $g$ and $s$, Amador co Potsidam Con. mining co, St Mary's d, N Pioneer Mill and mining co, Nevada 'Ter Panama Con. g and s, Smoky Valley dis Pyroide Union, gold, Cuntra Costa co Prima Donna, $g$ and s, Devil's Gate Persever nce, copper, El Dorado co
Quartz Mountain, g and s, El Dorado co Queen of Sheba, g and s, Washoe Valley Rialto - $n, g$ and $s$, Silver mountaiu dis Rose, gand s , Amador co
Rockwell, g and s , Raven-wood dis Rosario and Carmen mg co, Sinaloa, Kex Richard Hall, $g$ and $s$, Lander co Rotbschild, $g$ and $s$, siorra dis Rising Sun, $g$ and s, Reese River Rosario, of and s, Sinaloa, Mexico
Riverside Quartz mining co, 'Luolumne co Riverside Quartz mining co,
Ross, $g$ and $s$, Humboldt co Reese River Ophirco
Rich and Rare Con.g and e, Esmeralda Rocky Bar, $g$ and s , Esmeralda
Rusario, g and s, lyon co
Sonoma, g and s, Lander co
Scandinavian, $g$ and s, Silver mountain Sheha Cent, $g$ and $s$, Humboldt co Santa Rita mining eo, Sinaloa, Mexico Star of the West, g and s, Amador co Savage No. 2. g and s, Virginiu dis Santa Clara Tun and M co, Esmeralda Silver Prize, g and s, Silver mountain dis Silver Creek, $g$ and s, Silver mountain dis
$S$ Valley Forge $g$ and E , Lander co
San Francisco Buy co, San Fracisco
San Antonio Ch quito, silver, Chihuahua San Gabriel, gold and silver, La Paz dis Shrader, g and s, Russ dis
Sophia, g and s, Bald mountain
San Francise, Argentine dis
Southern Light, gand s, Reese Riqer Spartan, ${ }^{\circ}$ and s, Humb, ld co
Sit Andrews, $g$ and s , Lyon co
San Francisco mining co, Carmen Isla nd San rancisco miming co, Carma
Seneca mining co, Virginia dis Sierra Valley, g and s, Plumes co
San Patricto mining co, Carmen Island Sun Fernando Qtz Mitl \& M co. Slate Range Sutter Creek, gand s, Amador co St Charles, g and s, Reese River Salamander, g and s , Coso dis
 Star of Hope $g$ and s, Silver mou
Spring Lode, $g$ and $s$, Esmeralda Silver Butte Con, silver
Santa Barbara, g and s, Los Angeles co Seneca, gold and silver, Esmeralda St John, gold and silver, Humboldt diitrict Smith O'Brien, gold and silver, Lyon county Southwest Con, g and s, Colorado district Sigel, gold and s Iver, Calaveras co
South Genessee mining co, Lyon county
fan Juan co. Mumboldt connty
South Chihuahua, gand s. Fsumpralla
South Sacraneato, gold und sily, Cedar Hill
Sc Marys,
siar. rohl und silver. Lymu county
Sin Francieco, og and s, Calaveras co
Sia rra Madre, है und s
viunta Cruz P'etruleum Oil M co
Sjencer, is and s, Humbuldt co
Farah Frances, $g$ and s, Cul. and Nevada
Santa Clara Coal eo
San Pablo, gold und silver.
Sun Frunciecu Tumel \& Mining Company.
 Star of Empire, gold and silver, Marip'a Co. Totowah J'unel Company.

## Tilly Tunnel and Mising C'umpany.

Tajo, gold and silver.
Tecoripa Mining Company
Terra del Fupgo, gold and silver.
Thunderer Ledge, gold and silver.
Tan UShianter, gold and silver, Esmeralda.
Tellurium, gold and silver, $\Lambda$ mador Co .
Thumpson, gold and silver, Silver mountain. Teutonia, gold and silver, Gold Hill.
Tirita, silver, Sonora, Mexico.
Tip 'Top, gold and silver, Silver Mount'. Dist. Tunawanda, gold and silver, Colurado Dist. Telegraph, gold aud silver, Excelsior Dsstrict.
Tecoluta, silier, Durango, Mexico
Tennessee, gold and silver, Echo District.
Twilight Tunnel Mining Co., Gold Kill.
Tallulah Mining Company, Humboldt Co.
'lenneesee, gold and silver, Coso District.
Torrid Zone Con., copper, Anaadr Co-
Union of States, gold \& sil'r, Santa Clara dis.
Union Thirty Fuur coppe Amadur Co.
Umpire, gold and silver, Humboldt County.
United, copper, g and s, Contra Costta Cu.
United, copper, of
Valle, gold and silver, Gold HIll.
Virginia Mining Company, Carsen Hill.
Vesta, Mining Company Lander Co.
Viejo, g and s, Lynu County, N. M.
Wisconsin T'unnel Company.
Webster, gold and silver.
Whitman, gold and silver.
Weehawken Mining Company.
Weaver, copper and silver.
Walrath Tumnel and Mining Company. West Point Blue mountian Mining Co.
Wangaman Mining Company
Willamette, gold and silver
Young America S F M Co.
Washington, g and s, Lander Co.
Wisconsin, gand s Silver mountain Dist.
Waukasiu, g and a Inyo District.
Wiuona, g and s, Esmeralda
Wide West, g and s , Devil's Gate
Whiting, $g$ and $s$, Devil's Gate
Waitt Con., g and s, EI Dorado Canon
Wilson, g and s, Echo dis
Wallace, $g$ and s, Indian Valley dis
Washoe Val Mam Co, Smoky Valley
Winnemuck, $g$ and $c$, Amador co
Young America, $g$ and s, San Francisco co Yuba, g and s, Yuba
Ypsilunti, gold and silver.
Young Antrim, gold and silver.
Zurita, g and s , Virginia dis
Zonave, g and s , Reese River

## The Pacific Mineral Compnay

M
Cupper, Stiver, Tin, Niciell, Cobalt, Zinc,
Lead, and Sulpeurets containing Gold. Dne acount ataken of anl valuablu thetals combined With siver aud copper ores, and advauces nade there-
for.
rarties owning indevcloperd mines and desiring canital
 justify such expenditure.

OFIICE, No, 1, ODD FICLLOWS' HALLL,
Mustgunery Street, SLa Francisco.

To Mining Companies about to Incorporate.

## JOHN ARMSTRONG,

## onveyancer,

610 Merchant Street,
Is Prepared to draw with Aceuracy and Dispatch,

San Bernarlino, gand s. Siu Bernardino co
and all other Papers,

## REMOVAL

of the "MINING \& SCIENTIFIC PRESS" OFFICE :Alter the issue of our presect number, we shall remove to the spacious rooms, Nos. 56 and 57 Government House, corner of Sansome and Washington Street.

## THEE MINERS' T.ABORATORY.-NO. XII.

minerafogy of biluter.
Silver is found in a variety of forms and combinations. Our object, in the present chapter, will be to describe them.
Silver is found native, ( $i$, e) nature supplies as with the metal in a metallic state. occasionally. It fuses bebert the blowpipe ; is solutle in nitric acid. The addition of hydrocloric acid, or common salt, produces a copious, white, curdy precipitate, which turns black on exposure to the light.
Some varieties contain very small guantities of copper, antimony, and arseuic; others contain gold. The specific gravity of pure silver is 10.1 to 11 .
Silver occurs in veins, rarely in beds; in crystalline slaterocks, gueiss, mica slate, hornblende slate, granite, syenite, porphyry, with arsenic and various ores of silver." It is met with mosr abundantly in Pera, Mexico, and Chile, and we may now add also Nevada Territory and California.
An amalgam of silver, with the following composition, has also been found in several places:-

$$
\begin{array}{llll} 
& & \\
\text { Silver, } & 25.00 & 27.50 & 36.00 \\
\text { Mercury, } & 73.30 & 72.50 & 64.00
\end{array}
$$

Silver also decurs in combination with Tellurium. Other metals are also present, as will be secn by the analysis given below. The scientific name of this wineral is syloanite. Specific egravity from 7.99 to 8.33 ; lustre, metallic; steel gray, tin white, silver white, some times inclining to brass yellow, streak the same.- When heated before the blowpipe on charcoal it imparts a greenish-blue color to the flame, deposits a white sullimate on the charcoal, and melts into a dark gray bead. If heated with soda it yields a globule of an alloy of gold and silver; disolve in nitric acid, with the exception of the gold, if silver be in sufficient excess ; yielding a white precipitate with hydrochloric acid.

| analysis. |  |  |  |
| :---: | :---: | :---: | :---: |
| Gold, | 30.00 | 26.97 | 26.47 |
| Silper, | 10.00 | 11.47 | 11.31 |
| Lead, |  | 0.25 | 2.75 |
| Copper, |  | 0.76 |  |
| Thillimine | 60.00 | 59.97 | 58.81 |
| Antimony, |  | 0.58 | 0.66 |

Peterite, Lastre Metallic. Between leadgray and steelgray; streak the same ; slightly malleaide; specific qravity 8.31 to 8.83 . When heated before the blowpipe on charcoal, it volatilies, leaving a britte globule of silver, soluble in hot nitric acid; after standing some time the solution deposits crystals of tellurie of oxide of silver.


Occurs in granular masses, with iron and copper pyrites and blende in tale slate in two or three mines ouly.
Antimonial Silver. Lustre metallic silver white, inclining to tin white, streak the sume, sectile, specitic gravity, 9.4 to 9.8 ; melts easily when heated before the blowpipe, emits fumes, and deposits a sublimate of oxide of antimony on the charcoal, leaving a malleable globule of silver, partially soluble in nitric acid, leaving a residue of oxide of antimony undissolved.

Occurs in veins in granite, phorphyry, and crystalline slate rocks accompanied by silver, arsenic, arsenical pyrites, galena. Ruby Sllver-Seleriurel of Silver and Copper. Criptalline, lustre metallic, lead-grey, streak shining,soft.- When heated before the blowpipe, emits the smell of Selenium, or a smell resembling horse-radish.


This ore was found in cleavable grains in a copper mine, now fursaken.
Other rarieties of Seleniurets containing silver, are met with, but they are not of much importance, and we shall not describe them.
Gullencu, that is sulplide of lead, contains silver as sulphide, amounting usually to .01 and .03 per cent. occasionally to .05 and rarely to 1 per ceat.
Su'phurets of Silver: Lustre metallic, blackish lead-grey, streak shining, malleabie, specific gravity 2.96. Before the blowpipe on clarcoal intumesces, melts with disengagement of a gas, called sulphurous acid, giving off the odour of burning salphur, and at last yields a globule of silver, soluble with the exception of sulphur in concentrated nitric acid.

$$
\begin{array}{llll}
\text { Silver, } & 86.50 & 86.39 \\
\text { Sulphur, } & & 13.50 & 13.61 \\
\hline
\end{array}
$$

Stromeys/e.-Sulphuret of silcer and copper, lustro metallic, blackish lead gray, streak the same, shining, perfectly rectile, specific gravity 6.25
Before the blowpipe it fuses readily into a gray metallie globule, which with fluxes affords the reaction of copper, and by cupellation, yields a globule o! silver. Partially soluble in nitric acid, learing sulphur undissolved

| Copper, | 30.48 | 30.95 | 53.38 | 53.94 | 60.58 | 63.98 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Silver, | 52.27 | 52.71 | 28.79 | 24.04 | 16.58 | 12.08 |
| Iron, | 0.33 | 0.24 | $\underline{15}$ | 2.09 | 2.31 | 2.53 |
| Sulphur, | 15.78 | 15.92 | 17.83 | 19.93 | 20.53 | 21.41 |

Form in crytals, usually massive and disseminated.
Copper Glance or Virreous Copper, such as is obtained in Plumas County, California; and Colorado. We have also seen samples of the same kind of ore from Washoe, containing variable proportions of silver from a trace to 1 per cent. Samples of this kind of ore from Chile have assayed as high as 2.96 per cent. in silver.
To detect the presence of silver in such ores, proceed as follow: Dissolve the finely pulverized sample in pure nitric acid. Evaporate the largest portion of the acid by continual boiling, dilute with water, filter, and to the filtrate add hydrocloric acid, and a white precipitate will indicate the presence of silver in the rock.
Jamesonite; lustre metallic, steel.gray, streak the same, sectile, specific gravity 5.564 to 5.616
Decrepitates when heated. Bufore the blowpipe it melts easily, deposits a suplimate of oxides of lead and antimony on the charcoal, and after, lead and antimony are driven off, Ieaves a slay which usually affurds the reactions of copper and iron.

| Lead, | 39.67 |
| :---: | :---: |
| Iron, | 2.93 |
| Copper | 1.73 |
| Zinc, | 0.34 |
| Silver | 1.44 |
| Bismuth, | 0.21 |
| Autivony | 32.17 |
| Sulphur, | 18.07 |

Mr. Editor :-The remarks of "A Poor Chemist" on my communication to your journal of the 3 d . inst., on $t \cdot e$ tests for silver, are anything but what one would expect from a genlleman professing to be acquainted with chemical reactions: The errors that crept into my communication by inadvertance, owing to the fact that your proof reader was not well versed in chemical tests, were sufficieutly evident to the merest tyro in chemistry. Allow me to inform "A Poo Chemist" that I am thoroughly acquainted with the test fur chlurine. I deny, though, the assertion of "A poor Chemist" that Sulphide of Ammouium and Chromate of Potash are not commonly used as reagents to prove the presence of silver. Can he point out to me any author on practical chemistry who has neglected these tests? Would he consider an arti cle on tests for silver complete without the above tests? especially when we take into consideration that it is your object to lay before the readers of your valuable jourval, from time to time, a list of tests for all the metalls.

A Poor Chemist" also says that some statements, however, of the properties of Hydroctoric acid seem to imply absence elsewhere." I shall feel thankful to "A Poor Chemist" for pointing out to me and your readers, where I have erred in deseribing the propertios of Hydrochloric acid when aty-

## dRy CRUSHING.

It is anw a generally conceded fact that by the wet method of crushing quartz a large proportion of the gold is carried off from the batteries and away from the mill in the first rush of the water, employed to discharge the sunds thro' the sieves. Gold is capable of such minute divisions, and is so easily separated that all must concede that in the violent abrasion to which it is subjected in the battery, its particles, as they occur in the quartz, must necessarily loose much of their weight hy parting with numerous atoms so infinetissimally small, that the slightest cnirent of water must inevitably carry them off.
We will illastrate, again, as we have, already doue in a previous number:-A piece of gold, especially if it be pure, drawn across, eren so soft a substance as a piece of bone, leaves a weil defined yellow mark 'This mark, of course, is made of particles o! gold which have been abraded by the contact of the two substances "It is often the case that gold is found thro igh the entire mass of rock, in pallticles 10 larger than thuse which form this graphitic-like mark. Such, no doubt, is the character of the gold found at the Mission near this city. A moments reflection, with this little experiment iu miud, can scarcely fail to astonish any quartz miner, who has never had his attention particularly called to the matter before, at the large pereentage of loss which must occur in a battery where many thousands of particles of intermingled gold are, for hour sand days, subjected to the temible abrasion of eight hundred pound stamps contipually falling upon a mass of angular fragments of hard qu rtz. Of course, a large percentage of the gold mingled with quartz, must be reduced to particles quite as minute as those contained in the supposed yellow mark upou the bone above alluded to, all of which must inevitably be carried off by the water necessarily passing through the battery during the process of wet crushing. Indeed, this finely divided gold will foat upon the surface of the water for a month, even when it is slightly agitated, without beconing wet on its upper surfaces, aud, of course, without sinking.
Another great loss from wet crushing arises from the fact that no seives cun be made arailable with holes sufficiently Gine to retain the quartz in the battery untilit is reduced to a proper fineness for liberating all the gold which it contains. Huadreds of distiuct particies of gold may be contained in a piece of quartz no larger than a pin's head, a large portion of which might be separated and saved by proper machinery, but never by any machinery where wet crushing is employed.
The facts above stated have, for years, been gradually impressing themselves upon our quartz operators, until the losses, sustained by the processes at present in use have come to be looked upon as a matter for the most serious investigation. Dry crushing, in the first ins auce, is the only cenceivable remedy, for the losses alluded to. Of the various processes for amalganatiog, there are several in use which might be advantageously employed. Of these we may speak, at length, in a future issue. The matter at pres-, eut under review is crushing-wet and dry.
As alreally intimated the evidences of the losses from wet crushing, have long ciallenged the attention of quartz men and various expedieuts have been resorted to to render practical some process of dry crushing. The ordiuary straight and round batteries have been tried with sieves boxed up to prevent the dust from rising. A very ingenious machine for dry crushing, was iutroduced to notice, in this city, lavt winter, and illustrated in this journal, Lunwn as "Pond's Crusher." We have also given an extended notice of Howell's Centrifugal Crusher, which has been quite thoroughly tested at the Pike's Peak Mines, but the latest improrement in the way of dry crusbing, is a machine recently got up and patented, by Messrs. Wheeler \& Hotalling, and which may now be seen in operation at the Mivers' Foundry in this city.
This latter machine is the one alluded to in our last issue, which we will now atteurpt to describe as well as it may be done without illustrations:-
This machine, in the first place, comprises an ordinary battery-without sieves; boxed up closely. In the rear of the battery, and some some six feet distaut, is a large chamber some ten feet square. Two or more tales or pipes start froin the upper, interior space, within the battery, and unite
(f)w the nutside, as inear us may lie to the same, and extent ' fitu the lower portion of the chanber atoresnid. Abrut filway of this tubue, is is omall ctamber in which is placed In exhanst fan, which, when in opration produces a strung Thaust curcent of air from the int?rior of the buttery to hie interior of the chamber. As a matter of course the harta, as liat as it is thoroughly pulverized, rises, in the frm of dust, is drawa through the tuke and deposited in the hander in the rear. The fineness of the dust is regulated putirely by the furce of the exhaust draft, which may be asilg reguluted hy a sliding tubeor the speed of the fan. his current is kept up and aicied by a return flue, of much arger limensions, from the top of the chamber to the luwer fortivu of the buttery-the return flue taking the air from a hint in the chamber, as far rentuved as pussible from tho int whore the dust is received from the battery. Actual orking shows that very little is roturned to the battery by wh curn current of air.
This machme is but an experiment, yet a most flattering he thus fur. We are not yet able to determine the quantiof work which it will perfurm. Of course the wear and ar can be no more than that of an ordinary battery. Our pression, from what we have seen, is that the buttery now use-fuur stamps of 500 tbs . each-can reduce about - tons of rock, delivered to the battery dry, in twelve urs. The rock delivered from the machine is redured to hine dost, exhibiting but a mere grit, whell tried between fe fiugers, dry. We have, at unr office, a sample of the st which we took up at the mill, frow a large mass, as a r sample of the whole.
Impurtunt improvementsare already in contemplation. eexperiment is in the hands of parties who have had Fo experinuce in quartz mining, and who will spare no furts in bringing it to perfection. Quartz miners and otha interested will do well to examine and judge for themves. The machinery has been at work upon rock from quartz mives back of the Mission in this city.

## THE MINING SHARE MARKET.

The Mining Share Market has presented nothing of ecial interest during the past week. It has en claracterized by rather more than a fair degree of fivity and with about the usual fluctuations. The transacno may be set-down as large, though generally at reduced. Lus. Advanced rutes, however, are noted in several shares. could \& Curry, early in the week, declined $\$ 250$ or time, t subsequently adranced a shade, closing firm at $\$ 4,725$, $u$ reason, so far as we have been able to learn, has been asned for the recent decline in this stock. The yield of the he continues without abatement, and larger dividends are il confidently expected after the present month, or as soon the additional works now in progress bave been compled. The late sales have been made by parties who have retufore refused the highest offers.
Ophir shares opened at $\$ 2,450$, advanced $\$ 75$ on time, but 4sed at $\$ 2,350$, with sellers at 2400 . The recent "rich fike" in this mine is still reported as continuous, with no pearance of "giving" uut"-anything but the richest kind of valued at from $\$ 1,000$ to $\$ 3,000$ per ton. If there is any proximation to truth in the reported richness of this rock, is difficult to conceive why the Company should not inpase their dividends, at an early day, to a higher figure than y which it has yet reached,
Potosi shares are held firmly at an advance of $\$ 100$. We ute at $\$ 825$. It is said that a fitice contest will be made the Grass Valley Company for a title to this valuable ne, and that every preparation has been made by them to reggthen their application for an injunction against the tos $i$. The argument is to be heard by Judge Mott during present week.
Grass Valley stock, under the influence of the above proledings, is in request at about $\$ 95$.
Chollar shares, which had adranced, the previous week 1 m \$1,150@1) 1,500 , have not been so much sought after, past week, and have declined to $\$ 1,300$. The affairs of ts Company, at the present time, are under a most prusrous condition, such as can scarcely fail to advance its Pres, at an ourly day, begond any figure w bich they have y reached. It is statod that sixty tons of ore are now y reached. It is statod thart sisty tons of ore are now
lly taken out of tho north end of the mine, which is sold
at an nverage of $\$ 3 n$ pel ton. The companys new 100 hosee porwer engine for huiktinw, pumpung. मte., will he used 4(1) fieet south of the present workinges; the shaft at this point has penetrated to he depth of 285 feet.
Hale \& Noreross bas nut been in the market the past week. Its stuck is held by parties who are nut ansious to part with it, at presint uffers.
Centrul and Califurnias shares have not been much dealt
White \& Murphy, Dick Sides and Best \& Belcher, are withheld at present. "No transactiome" are reportesl in these shares. Judge Mott has granted an injume ion urainst the the Kohinoor Company, at the instance of the Bost \& Belcher.
Spanish No. 2, adjoining the Mexican and Ophir on the Nurth-East. According to the Prices Current of the 13 th inst., this mine "is attructing some attention." After two years of patient lahor and the expenditure of a large amount. of money by this company, it is said that a continuation of the "white lead" of the Ophir and Mexican has been developed, and that abundaut pay metal is now in sight. This stock has been dealt in, the past week, at great fluctuations, opening at $\$ 75$, and closing at $\$ 35$.
Buckeye has been quite active, in fact has been the fancy of the week. Sales of 553 shares are reported at $\$ 38$ @ $\$ 62 \frac{1}{2}$. It opened the week at $\$ 55$, advanced to $\$ 60$, at which figare some large sales were made. Buyers were induced to invest upon the report of a favorable financial condition of the company, with cash in hand, a large amount of pay ore on the surface and a new vein "just opened," containiug "black sulphurets, very rich." The speculators baving accomplished their purpose, the shares fell back to their old standard and closed the week at $\$ 38$.
The Sacramento and Meredith Companies having consolidated their interests, will hereafter be kuutvn as the "Sacramento \& Meredith Mining Co." The latest quotations of these shares are $\$ 115$ for the former, and $\$ 70$ for the latter No sales of the consolidated stock have been reported.
Overman is still growing in favor. Its shares have been considerably dealt in during the week, fluctuating from $\$ 380$ to $\$ 500$, closing at $\$ 390$.
Wide West has been largely dealt in, at declining rates These shares opened the week at $\$ 165$ and gradually fell to $\$ 145$ (a) \$147 at the clase-sellers \$150.
Real del Monte shares have attructed marked attention. Closing the previous week at $\$ 275$, they opened the past at $\$ 300$, advanced to $\$ 435$ and closed at $\$ 415$. Sales of 130 shares are reported.
Esmeralda is dull at $\$ 22$, Silver Hill at $\$ 30$ @ 33, Ural firm at \$150.
Coso has declined to $\$ 11$, Josephine advanced to $\$ 131 / 2$, and Willow Springs is quoted at $\$ \pm 3 / 4$.
Sheloa shares have changed liands to a limited extent extent at from $\$ 222 @ \$ 225$. De Soto had advanced to $\$ 70$, after having sold for $\$ 48$.

COPPER.
We have no report of transactions in copper stocks for the past week. Intelligence from the mines, however, is still of the most gratifyiug nature. Almost daily reports are reaching us in the shape of large quantities of well filled sacks of the most promising ore.
The Table Mountain Copper Co., near Copperopolis, has made its first report of this description, which may be seen seen in front of the Secretary's office, on Montgomery street and which is elsewhere alluded to more at length.
The Union, Keystone and Napoleon still continue their regular shipments. Small shipments are also beginning to to come in from several new sections of the copper belt, which are received as the earmest of larger ones soon to follow.
Considerable attention is being attracted to the copper mines upon the Colorado. Some very superior ore has recently been received from that section.

Pick Manofactory.-We would call the attention of miners to lie advertisement of Mr. Hiram Wiite, which will be found in our columns to-day, who has recently established himself, on Bush street in this city, for the manufacture of Picka for miners use. Mr. Wright makes a very superior article and miners or others eugaged in the trade will do well to call upon him.

REPORT UFBIDS
Alt the Sun Frundisco Mianig steck Bomend, For the woek ondrug Ang 16, 1803.


## SUGGESTIIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general ule, sny invention which is valuable to the patentee in this country, is worth equally as much in England avd some other foreign countries. Four patents-American, Euglish, French and Belgian-will secure an inventor exclusipe monoply to bis discovery among one bundred millions of the most intelligent people in the world.
The facilities of business and steam communication are sucb, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign countries are obtained through the Mining and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Government, we obtain parents in Great Britain, France, Belgium, Prussia, Austria, Spain, etc., with promptuess and dispatch.
Models are not required in avy European country, but the utmost care and exper ieuce is necessary in the preparation of the specifications and drawingse
When parties intend to take ont foreign patents, engravings should not be published until the foreign applications have been made.
Cautrox.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent at bome.

While it is true of Most European countries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should bave their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal examination ; as it is a common practice when a patentee finds a purchaser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patentagents or patent brokers, as they caonot ordinarily be trusted with valuable inventions.

ALEXANDER STOTT,
MINING SECRETARY, 512 Sansome Street, San Francisco.
Secretary of-
Horses Sige, Silver and Copper, sfonte Diablo. Danle WYystri, Gild and cilver, Devil's Gato.


## PATRONIZE

 HOME MLNUFACTURIES!!!James Longshore,
Trunk and Valise Manufacturer, $\mathbf{3 0 7}$ Sansome Srect, undor Teliama House. Trunks and Valises, Wholesaleand Retail, Fine Sole Leather Trunks, Valises, and a fie assortment of Ladies' TRUNIES con stautly on hand. Trunks covered aud repuired.

## W. W. HANSCOM,

Steam and IMechanical Engineer, Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Ma chinery, ete., fte.,

$$
\begin{gathered}
\text { Fug } x \\
\hline \text { Jogr P. Gallagher................Jogsph H. Weso. } \\
\text { GALLAGEER \& WEED, } \\
\text { BRASS \& BELI FOUNDERY } \\
\text { AND }
\end{gathered}
$$

## LOCK FACTORY.

No. 125 First street, opposite Minoa, next dour to Pacif Foundry, all kinds of
Brass and Compositnon Castings and Finishing, done with neatness and dispatch,
 in Made to order. Eayinceis Gougs made and hung in the best manner. Bank, Vauit, Store and Prisou
Locks, ullso brass fidiocks and Shop Lucks of variuus pather man on havd and made to order.
Mo Purticular a tentention given to costing Rudder Bra-
ces anll ship Work iu seneray.
All Jobs promptly attended to.-Prices moderate.
mederate.
Remured from Oregou street, between Front and Davis.

## WRIGHT'S PICKS.

$J^{\text {OHN WRight, of Sacramento, has estabisted bum- }}$ sosf in San rracisco, for the manufacture of cvery pricos. Picr Eres of the bestiron furnished in any quan tity, at low ratos Orders from the country promptly atteullod to. N. B. - None genuine unless stamped with my uume. JOHN WRIGET, 611 Market strect, Opposite Battery, Sau Francisco.

WANTED;
GOLD QUARTZSUITABLE FOR CUTTING JEWELRY,

By frontier a. deviercy,
I3 ap 487 Pine street, San Francisco.

HAYNES \& LAWTON, Importers and dealersin CROCKERY, GLASS WARE, FRENCH CHINA, Coal Oil Lamps, Table Cutlery OISOKKS Silver Plated and Britania Ware, ETC., ETC., ETC. NO. 516 SANSOME STREET [Corner of merceant,] San Frangisco.

International Hotel, Jackson Street, -...... San Francisco [A few diors above Mootgomery.] FIRE-PROUF BRICK BUILDING. Moast convenient to the
Stenmer's Landmg, Business ste. \& Places of Am
OPEN ALL NIGH'T. City Railroad Cars Pass the Door. REDUCTION IN PRICES.
Fine Bathing Rooms attachod to the Barber Shop.
Warm and Cold shower Buths Frice to Guests.
THOROUGHLY RENOFATED AND NEWITY FURAndished hach room is furvished with as first quality Patent spring Bed nud Hur mat tresses. The Iuteraation
ul ofters to guests tuo greatest Pa tent sprigg Bed nud Hur mat tresses. The I
al ofers to guests tho greatest number and

> Best Furnished Family Rooms;
 Tamd determined bast tregulated, andi io all respects superior to any like establishment in the etate, aud shall
nim to tmerit a continuavive of the popular faver it las
nit aim to menita a continuatuce of the popplar favor it has
ejpoyed heretofore. It will be conducted on Temperauce
Principles, ${ }^{\text {Principles. }}$ F. E. WEYGANT, Proprietor.

John R. Sims,


Oregou street, between Waslington and Davis and Fron
and Jackson strects, San Franclsco. $1 \begin{aligned} & \text { anuracturers of Fixe Proof Doors and } \\ & \text { Shutters, Bank Vaults, Gratiug, (hemetary Ral }\end{aligned}$ ings. All orders from the interinr Uregon, Washington
Territory, Vancouver's Island, British Colunbia, or any place on the Pacifio const, attended to with promptaese dispatch
Mx. Simas Appreciates the Past liberal patronage of his friends, aud trusts that he may
continue to merit it in the future.

For the Informition of Strangers ho would say that be fenls coutident that his experi-
ooce in his particular calling is surpassed by none on once in his particular calling is surpassed by none on
this coast, which his surerior work, sent to almost erery town in this state, Oregun, alxo Victoria and the Sind-
wich Islands, and to be seen on some of the best build-
ings in San Francisco, fully attests. A large assortment of second land shutters for sale at low rates. api3

## NATHANIEL GRAY,

General Furnishing Undertaker, g41 sacramento st., Cor. of Weblb,

FULTON FOUNORY \& IRON WURKS
HINCKLEY \& CO.,
Steam Engines Quartz, Flodrand Saw Miles; Cass Iron Fronts, for Bulldings, Mining Pumps, and all kinds of Macuinery, Etc., FIRST STREET,
between market ayd Mision...........san Franclaco.
*** All kiads of Tron and Brass Casmings furniahed
at stort uotice. Every style of Einishing to Iron when at short uotice. Every style of Finishing to Iron when
cast. Repairing of 3achinery healy done.
Pattern Makivg in oll its various forms. Prices low. D. B. Eunckley. Wal. E. Wokte. Wm. A. Field.

## W. T. \& J. GARRATT,

 City Brass and Bell FoundersB ABEET METAL CASTINGS, FIRE ENGINES, FORCE B and Lift Pumpls, Chureh and stearmboat Bells, Tav




## SQUARZA'S PUNCH.

FIRST PREMIUM
T THE SACRAMENTO AGRICULTURAL STATE FAIR
ALSO; FIRST PREMIUM
At the San Francisco Ray nistrict Agricultural Fair, 1863
Manufactory, wiorssale ayd retal,
No. 44 Leidsuorf strect,
No. 44 Leidsdorf strect,
Opposite the What Cheer House, Sall Francieco.
R. W. FISHBOURNE,

## PRACIICAT LITHOGRAPHER,

ENGRAVER AND PRIN'XER,
NO. 5 Sa CLAY St., CORNER OF LEIDESDORFF,
 Checks, Laudseapes, Arcittectural and MArime Views
Shon Cards, Labieis, Etc, executed with Moatness and Shov Cards, Labeis, Etc, execuled with noatness and
dispatel. N. B. All orders in Crayon Work prompty astended to.

## MINING.

N. B. Mining Stock Certificates executed with promtoeas and dispuatch, and at greatly reduced rates. jy 6
MARTIN \& Co.,
OFFICE---224 Montgomery Street, Up Stairs,
will contract for the
Purchase of Copper Ores Assaying 8 per cent and upwards of Capper to the Ton We will make ADVANCES upon Ores of COPPER, TD and NICREL.
Such will bo furnichefinnd Firights Paid on all con
sigumenta if desired by tho colsignors. digumenta if desircd by the collsignors.

Tremont House, 418 and 420 .... Jackson Street,
[A fow doors from Montgomery,] San Fravcisco, Cisl.
$T$ HIS FINE, FIRE. PROOF BUTLDNG OFFERS MANY
 Andusement.

The City Railroad Cars pass the Door.
The Honso is conducted on Temperance Privelples, which secures to our guests quiet.
The prices for boarll and Rooms are vory moderate-
oy the day, meal or week. We soncir A CAll From all F. E. WEYGANT, Proprietor.

For the accommodntion of my many guests I have ta-
ben und refurnshed tho NYTRRA
 Wishing to put op at either house, may take the Tremout
or luteruational Hutel Corch aud be taken to cither Housc with thuir baggage, RreE. F. E. WE YGANT.

## LEANDER RANSOM, Civil Engineer and

## SURVEYOR ,

Having been connected with the public works of the State of Dhio for 20 years, and the public surveys of the State of California for 7 years. ALSO
state locating agent.
And as such having the sale of
600,000 ACRES OF STATE SCHOOL
at the low price or $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and tho balanco
on 2 ereertit of ofeveral years.

nor of Montgomery aud California streots.
g, Net 3 mm


## DR. H. AUSTIN,

 DENTIST,No. 634 Washington street,
Between Moutgomery and Kearny, (over Snn Franciseo

 cleauly and curate, and or a natural color, The cheap.
etciud best material for tempurary (and iu muny cases)
permaneut sets. All operations thoroughly performed, and at reasonablo prices.

To Mining Companies.
I ${ }^{\text {ORR SALE }}$ Eugine is 30 hiorse power -10 And BoILER. THE
 $\underset{\substack{\text { and } \\ \text { ind } \\ \text { iuc } \\ \hline}}{ }$ $\underset{y}{2}$ Both Eugiue unal Boiler are in perfect orler aud fully fuaranteud. Apply to I. H. HAM, $\mathrm{NNO}^{2} 211$ Clay st.

D ESKS
Office Furniture,
OF ALL KINDS...... FOR SALE BY
JOHN WIGMORE,
No. 423 California St., Dan Francisco.
OFFICE JOBBING, of all Kinds, attended to.

PALMER, HANSCOM \& CO،
GOLDEN STATE IRON WORKS,
urnish Castings and Machinery of all kind

Genuinr White Iron Shoes and Dies. PALMER, HANSCOMB \& CO.

## To Quartz Miners.

Knox's Improved
AMALGAMATING PAN, WITH
PALMER'S PATEN' SCEAM CHEST.
THE Above combinaTTON SECURES THIE MOST
any pomplete amalg: mation of tho precious methts of

 wise lust Made exeluslyely by

PALSER, HANSCOM \& CO., Nos, 19 \& 21 Filist Streot, Snu Fraucisen
 grame for undersigned unon strum Chest Filse Bot aro chutinned against miking, buying, using or selling
the sume without his conseut.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street.
$\mathrm{O}^{\text {r }}$ rufr sulter mining stuck,
gUULD \& CURRY mning stock,
choldar mining stock,
CALJFORNIA STEAM RAVIGATION CO'S STOCK,
BOUGHT \& SOLD.

## DEETKEN'S

Chemical and Metallurgical Works,
On San Bruno Road, Islais Creek,
Gold bearang sulincrets worked at reas

 perienced badeds at a cost of sso to $\$ 100$, if deesred ly
mill owners. No yower nor cleau water required for be purpose.

## LEWIS COFFEY AND RISDON,

STEAM BULLEIR AND SHERET IRON
The only exclusively Boiler Making Establishment on
the Pacific Coast Owned and conducted by Tractiral the Pacific Coast Owned and conducted by Tractiral
Boiler Makers. All orders ior Now Work, the repariug Boiler Makers. All orders ior Now Wark, the reparing
of Old Work, executed as ordered, and warranted as of old Wor
to quality.
Old Stand, corner Bush and Market Stroets.
Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RiSDON.

「HEODOR KALLENBERG
Maker of Models
FOR INVENTORS.
M

 Repairing ui Machincry promptly attenden to
No. A8 Market street, san Fxancisco.

THE RAILROAD H OU SE.
Nos. 45 and 48 Commercial and Cluy Sts., SAN FRANCISCO.
н. т. pelton

## PROPRIETORS.

The aboro Houne ts a Fire proor bnilhting, with, Grante
 longing by thay of Week to surt the cauvenieuce of our Patrolis
The Roome are handsomely furniwhod, opyhed with Pat out Spric.g Beds, and Hair Mallraar con, allording very
The Table is Ruphlient with the beat the market affords as priens to surt the tinien.
The Rail Roud Hrusi Coach is always in uttendance at
 the Hownce Fisec or (hayge.

## HIRAM WRIGHT, PICK MAKER,

Hae estabilaticed a Manufactury for the Making of MINER'S PICKE,
No. 141 pust sthelt, san francticco,
[Betweed Montrimely and saurnme]
[Betwew slontgincty and sankme, As he mathulacturen all hio prehs under hils owa persoual surge. vision, he whrathts them ar being made of the bent maternal nat by the begt work thanahip, Orders aftended to and tilled promptly and with dispatch.
D. NORCROSS,

Musonic Temple, No. 6, Post Street.

## Military Gcods of all Descriptions,

Navy Trimmings and Embroideries.
REGALIA FOR ALL ORDERS.

## MILLER \& COLEY, <br> Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

## Between Calitornia and Pioe, in Jerome Rice \& Co's Real

Estate Sales Rooms, San Francirco.
ALL RINDS OF Stock and mining Business attended to with

## REYNOLDS

PatentCut-off and Governor, FOR STEAM ENGINES.

127 of these Invaluable Machines, ARE NOW IN USE
In California and Nevada Territory, giviog a perfectly
Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

 Unv. It can be seen in operation at the Gideleus State
Works, and it the Stone Breaker, fool of Market St

## Clark'sSteam and Fire Regulator,


 per is put in.

## Ingersoll's Patent Drill Press,

With which drilling can be done the samo as with the
common rachet, nud when small holes nro wanted, in cau be done tour times as fast. The bandle can be wor
Felt for Steam Boilers, Pipes, Etc.
Steam Engines, Boilers, Pipes, Hyaraulic Preesses, stafting, Puileya, Etc., at the lowe

## Anti Incrustation Powder,




and 2,000 others in the Thited States.
No. 33 Fremont Street, San Fraucisco.

New Style of Ladies' Buokle!
W. BOHM, Investor and Patkither.


var. Fuinene, serongth ntel Apprarance.



 Agemat fur ithe Yatemtee. Fvery Buckle kuld. stam W. Bohnh," will
Muratilhy,
W. Buhis, Patentee. guaratit
$j y 27$

WILLIAM BRODIE \& CO., CALIEORNIA FOUNDRY,

## Fremunt Street, neur Markot, San Fruncisco.

Light and Heavy Castings; Of Fyery heseripthan, Made to order, Particular atten-
tentiun rasid to all kiuds of House Work, Pluiu aud Or tentiwy trair
nammanmal.

## Giffards Injectors,

For suppliging bulimes with fefen water
 send for a Circular. DAVIn stompart, Agent.
je22 Cor. Pine and Front Sts,, San Francisco.
I. C. E. KLEPZIG \& CO.,

## GUN MAKERS,

DEALERS IN GUN MATERIALS,
733 Washington gtreet, San Franciaco,
[One Door above Kearney street.]
Repairing done in a workmantite manner at the ehor
est notice. ent nilding, aud also Silver Plating, by E. Ekland. Je21

## CORNELL'S

## EXCELSIOR GALLERY,

## G50 Washingtonst. Three doors below

Having reflited the abuve ronms the undersigned is
now prepured to furnish the public with a superine style now prepured to furnish the public with a superine style
of Pieture, ut $u$ lower vrice than ever before ofiered in the city. CARD PICTURES.

CARD PICTURES.
As I have every facility for produciug these heautiful
pictures, fu all their uifferent varieties, I buve reduced pictures,
the price to
$\$ 3$ Per Dozen and $\$ 2$ Per Half Dozen ! Large size Photograuths. \$3-Extra copies \$1 each AMbrotypes in all Styles and Prices.
OLD PICTURES copled with care and accuracy, in any
tyly desirod, Particular atte tion paid to pictures of ftyle desired, Particular atte:tion paid to pictures of
Chilliren.
 in Jedra luk by a competent artist.
je22 R. CORNELL.

## BAUNCHEIDTISM,

The Prkserver and Producer of Life.


 cuendmsar is fonnded ou a rathonal, scientific basis. It can sufely, and with sure succuss bo anplied to pa-
ralysis in consequeuce of spoplexy, Podagra and Rheuralysis in consequeuce of Apoplexy, Podagra and Rheu-
matism of every descraption, which kind of complaints matism of every descirption, when theind of complaints lispecially can it be arplicul successfully, in the spring
of the yenr to disenses of the eye. Dr. Borclers is the only dnetor in Californin who bas
tne original series of Dr. Bav-cmant and his original tue origival scrips of Dr. BAUN-CHEDT and his original
oil. Ir. Borchers is also in possession of original het ters
of the inventor of the method by which he can prove that he is perfect master of the lalter. DR. J. C. BORCHERS.


## THIE

BRYAN BATTERY

##  <br>  <br> that every naw prucuss developed thring the past twath yarn, han heon ool juwn us is faflure. Tho Ordiuury <br> stamp kattery <br> ALONE STANDING THE TEST.

This, with the Iraprovements which Experience ha Gogly reliablo
onle

METHOD OF CRUSHING ORE.
The Prixin Battkry, ne now constructed, is believed to combine all the improvemelts wheld the experierce
of the pust has anorded. They buve been

## EXCLJUSIVELY ADOPTED

by many of the mont prominent Mining Compames in the
country, sud himy heen, fur the three ןast yoars, subjected to the must serere if all testo-that of constuat use-and in every case havo been pronounced

Effective, Substantial and Reliable.
They are now extensively used throughont the
miucral regions of California, Nivada and Nexico, and miucral rrginas of Califnonia, Nurada and Mexica, and
have established a clam to nublic confi.lenco, vever get have established a clam to nublic confi.lenco
equalled in uby piece of minhing machinery.
Thesc mills are constructed almost entirely of Iron, and, conseriunutly, arr not aftectel by the intenae heat and dryness of a mophere, cotomon to all minitg local-
tied. They are adipted tis tied. They are ndapted to

## BOTH WET AND DRY CRUSHING,

and are warranted to reduce, with the same weight of Stamps, 25 per cent, more rock than any othor mill in
use. Fach Batery is complete in tself, and forms a use. Each Battery is complete in Pself, and forms a
perfect mill-while any number of them can bo added at a subseqent time-thus prescring the symetry and uniformity of tho Mill

As an evidence of the incrensing favor with which
those mills nre regarded, we would menting that the those mills nre regarded, we would mentinu that the
Celebrated Ophir Company first intreduced them ine Celebrated Ophir Company first intreduced them int
their works in 1880 , and have been ndding a number of their warks in 1880, and have been ndding a number or
Batteriea, each subsequent year, until they now have Nineteen, runaing Seventy-nix Stamps,
They are perfectly fitter and set upat our Works, beore shipping, each piece being marked and numbered Bo that they can be put up and set at work in ten hours after arriving on the grounn. They are mane of two si-
zes, four and five Stampis each. The Four Stamp
Batiery weighing complete abnut 8.000 pounds, zes, four and five stamps each. The Four Stamp
Batiery weighng complicte about 8,000 bouds,
and the Fivo Stamnabnu1 7.000. The Mortar Bed ueing cast in sections, when desircd, so that the mills can be packed over any mountalu road.

We annex the names of a few woll known Companie,
who have adonted them-rmning from fur to seventy Wive staraps each-to whom refereuce is made:

Ophir Mining Co., Washoe Valley,
San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co., Vi, ginia City,
Tajo Mining Co. Mexico,
Sheba Mining Co., Humboltd.
Lotat Milita co, como


Union purtr Cor, Alvom
Trimot, Sitime
Napa Quartz Co., Aurora,
Petaluma Quarlz Co., Gold Hill,
Francis Mellus \& Co., Slate Range,
W. R. Churchill \& Co., Mexico,

Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Guleh Flat,
F. A. Benjamin \& Co.. Mexico,
O. J. Parker \& Co., Nicaramua,

Gibhons \& Clayton, Esmeralda,
Smith \& Clouser, S. F. Reduction Works.
Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO.,
At the Pacific Iron Works.
san francisco.
os 125 to 136 First street, and 186 to 144
Fremont street.

## P. M. S. C O.

Pacimichat stan sup comparys



## WHEELER'S

 Amalgamating and Separating Pans,It is acknowledged by all who have examined the prin-
ciples aud wituesked the optrution of thene Puns, they are decidedly sujuerior for trituratug and amalga. mating purineses to any other in use.
The sunst important urizciple caunected with the ope-
ration of these Hana in the sepuratina of the tritur


 the quicksilver. during the proces of trituration, mull in
ciramius on isy tur intontuction of the ciraming un by the introtuction of the Separating pan
tof flow the trituration this luss is entirely avoided. In
 Where
Where thexe Pans bave been intriduced aud operated Wbreler l'aushare uniformly gained a large percentace of metild were its comperitorb, as well ${ }^{\text {as }}$ ase percentage
perceulage in the amount of work performed. parceulage in the amount of work performed.
$* * *$ Thene Pans mau be Been in daily operation,
 aterested ure invited to cull and examine for themselve. 2016-tf
zenas wheeler.

## Wm, P, TAAFFEE, <br> importer and jobber of

## Staple and Fancy Dry Goods,

CARPETS, DUCK, ETC.,
Cor. Front and Sacramento atreetg,
San Francisco.

## D. MORRIS, MACHINE SHOP, <br> 227 Market, corner of Beale Street.

Manufucturer of
WARRANTED FIRE-PROOF SAFES Mill Wouk, of nli kinds made to order, All kinds of
jel3
Repairiug duve at modernte prices.

## REMOVAL,

ORFTCE OF THE PACIFIC METAL Havirg enlarged our Works at North Beach, wo are Gowenibled to reduce from 10 to 16 tons of silver or Gold rook per day.
Gold and Silver ore
Gola and silver ore, and Sulphuret Asayers3, or Sil
versmilh's sweepings reduced or purchased.
COPPER OBEX COPPER OBEX Highest markei rates
rash, for shipmenba. S. C. BRADSHAW, A Gent in
509 Sacramento street, near Sansome.

## SOUTH PARK

Quartz Mill and Reduction Works,
G OLD AND SILVER ORES WORIEED AT REASON-
Oilce in shiel's
$\begin{array}{ll}\text { je13 } & \text { S. F. CLOUSER, Scerotary, }\end{array}$
CALIFORNTA TOOL WORKS!
John Weichhart,
All Kinds of Edge Tools, Etc.,
Plave Irons Moulding Irons,
No. 22 Fremont street, bot Market Cutter's Tools, ete
Sand Mission,

## ASSAYS!

Promptness and Accuracy Secured
By the Use of tire Most Isrproved Methods of A NALYSIS!
Advantageous Terms for Prospector's Clubs and Mining Companies.

## 

Room 94 Government Block, corner of Sansome and
Washington Streets, Ean Francisco. 1 lis 6
Miners' Foundry

## MACHINE WORKS <br> First St., between Howard \& Folsom, SAN FRaNcisco.

F. VERT DESCRIPTION OF IRON AND BRASS MACHTin the state of California, will be furbichicd with dispatch at the Miners' Foundry and Jachine Works, as : Steam Eugines and Boilers, Flour, Savr and Quartz
mill machinery, Mining Pumps, Amslgamators, Retorts mil machiuery, llining Pumps, Amalgamatros, Retorts,
Etc.,
Etc.
Particular attention will be given to the mnnufacture
of Machinery in Sections, designed for plizees or diffenlit of Machinery in Sections, designed for places of difflenlit
access. Various mudels of Quartz Crushers, Amalgna. tors and Water Wheels-some in operation and on cxhi
 fo** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of
cost.
All parties desiring accurate and higlily finished draw tngs aud Superior Machinery, at most reasnnable rates
are cordially invited to call berore contrictiog elsewhere HONLAND, ANGEL \& KING

## San Francisco Machine <br> IRON WORKS!

Northeast conner Fremont and Mission Streets. A mi minds of machineh
Steam Engmes, High aud Low Yressure; Quartz mills, Saw mills, Siving Pumps, Hoisting machines for mining parpuses, Wine Presses, Agricultoral implements
ete, ete, and Castings of all duscriptions made to order ete, etc, and Castings of all duscriptions made to order repairing promptly attended to. FOR SALE.
One Upright Post Drill, Putuam's manufacture, A! so one thirty-inch screw Chuck,
San Francisco, July, 1853.
je13
50 lbs MAARINE and
Fire-Proof Paint,
M Works in this city, tor Hulls and Decks of Vessels
$\mathrm{M}_{\text {Work }}^{\text {Works in this city, tor Hulls and Decks of Vessels }}$ from ground Miveral Rock contains Arsenic, Conper, Lis or Bottoms or Ships, it is equal to a coat or stoue, and cheaper than any other paiut.

> DIRECTIONS:

For Dectss of Shups, use two parts Minneral Paint, one
part White Lead, mixwith Linseert Oil. part White Lead, mixwith Linseent Oil.
For Bottoms of Vessels, use oue part ground sulphur, three parts Hincral Paint, mix with Coal Tar and apply it hot. sale by all Ship Chanders and Tradesmen, in boxe as POUNDS FIRE-PROOF PAINT.
When uged on Ronfs, Buildings, ir Fences, it is equa
to covering them with a coat of stoue, beipg perfectly to covering then with a coat of stone, beit
Fire Proof, and costing less than any paint. DIRECTIONS:
HOUSE :- Mis three parts Miueral Paint with one part white lead, thix with Linseed oil: if a lighter color is wanted, mix less paint, more lend.
ROOF:-Five parte of Mineral
Lead; mix with Linseed oil. Put it thick on a tiu Roo Lead; mix with cont when properly applied wiil last three years. G. T. Fougre, Superintendent.

WORKS, North Beach; Office, 509 Sac ramento st., San Fraucisco.

## FREDERTCK MANSELL,

MECHANICAL \& ARCHITECTURAL DRA UGHTSMAN
No. 429 California street, corner of Leidsdorff
Drawings of Monsis made forlparties applying for pat

Napoleon Copper Mining Company,

Capital stock..................\$1,620,000.
z,700 \$hsyes---\$600 Per Share. Length of Lean $\mathbf{2 , z 0 0} \overline{\text { Fect ; }}$ Leation of Xine, Copher
Disitrict, C.laveras county District, Culaveras county; Incorporated resident. Sccretary.
 F. MarcRel.LJSH, of Alta Califurni
M. ERLFSBACH, of Greeubert Erienbach \& Co. A. J. MOCI.DER, of A. J. Moulder \& C
R, G BROWN of Grover $\& \in$ Biker S . J, C. DUNCAN, of Duncan \& Co. R. W. TLCEEES, of Conmissary Depart
W. Tucker il Co. W. A. WOOLWARD, of Alta Califtruia.
S. E. HOLCOMBE of Helco S. E. HOLCOMBE. of Holcombe Brothers.
W. L. DUNCAN. Scoretary Californiil Pioneers. office of Company, No. 420 Mootyonery street.

San Antonio Gold and Silver Mines, FORWARDING \& MINING AGENCY. SAMUEL SMITH,
OFFICE—North West Corner of Front and Clay
Mining machinery and herchandise forTesideut Agent at sau Antomo, sud information turnished regarding any claim., in that Territory, on Commission.

## FOR SALE.

Patent preseed russia iron maning pans, Russin Iron Quartz Screens for Mulls;
Partaule Furreas ; Cauloron Kettles ;
Partalite Furces; Cauldron Ketles
Pumps, boil Frame and
Punips Voth Frame Mind
Leand ; Rubber Hose ;
Wroupht
Vrought ron Pipe;
Bilb Cocks
Bivb cocks. Counling ; Play Pipes;
Coukine Stoves and Heniur Couking Stoves and Healiug towes;
Tin Flite: Shet Iron: Slucet Coper Tin Flite: Slloet Iron : Sloret Cupper ;
Fruit Cans of Varfus Kinds ;
 Irou Tire ; Brass Wire ; Copper Wire ;
Coppor Rivets and Burs ; Iroa Rivets ; Etc. We are also manufacturers of the

## UNEQUALLED

IMONITOR COOKING, STOVE
Or RANGE,
For Hotels.
To which we call particular attentiou.
je-29 TAY, BROOES \& BACKUS.
MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, San Fraucisco.
N. B. All kinds of Boiler and Sheet Iron Work exccuncr at the shortest notice, and on the most reasouab
jy 29
ermas.

## L. F. LELAND,

STOOK BROKER,
No. 621 Clay street,
Office Hours, 10 in 11, A. M.; $2 \frac{1}{2}$ to $3 \frac{1}{2}$, P. M. Member of the San Franciseco Stock and Exchange Board

MYERS\&DAGGETT'S
Mining and Stock Exchangej No. $23 \frac{1}{2}$ B Street, Virgina City, N. T. Mining Slocks of All Kinds Bought \& Sold. Business connected with Mining Stacks of every deserip-
tion promptly and conidentiolly at anded to. ion promptly and conal. ${ }_{*}^{*}{ }^{*}$ Abstracts of Titles Furnished, Etc.

[^7]
## II. C. $\mathbb{K} I B B E$,

IIINING SECRETARY, Commissioner for Nevada Teritory, 542 sacrumacnto st., cor. Montgomery (armory hall.)

EXCELSIOR IRON WORKS,
712 Sansome strect
GALLAGHER \& KENNEY, Manuficturers of all kinds of
Architectural and Ornamental Iron Work
Bank atd Store Vaults, satis, Dours, Shutrers, Bnl-
Etc., aud all kinds of Black:multing anal Job-
bing done with prompthess, atal at
Reasonable Prices.
Orders trom the country promptiy attended to.

## APARTMENTS.

FURNA:HED APARTMETYS, WITH, OR WTTHOTT Washington strect. Persons desiroue of a regpeciahio bome will do well in apply
E. C. DAKE, dealer in
CLOTHING,
Gentlemen's Furnishing Goods; also
HATS, CAPS, ETC.
At tee New Yort Cloming Store,
541 \& 543 Washington st. Montg'my Blk
je] Old No. 145.
[29
E.T. PEASE, R.S. CORNING, SAM'L C. BOWLEY

PEASE, BOWLEY \& CO.,
Real Estate, Stock and Exchange
BROKERS,
621 Dontgomery street, san Fxancisco.
Legal Tender Notrs and Mining Stoces, BOUGHT \& SOID.

## P U M P S !

HARRISON'S

## California Lift and Force Pump,

WITHOUT VALYES or packing,
Suitable for Mines. Fire Fagives, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, und least lable to get out of order, of any Yumg yet in-

## ALI SIZES;

Capable of throwing fram oNE HONDRED To FIVE
C. H. HARRISON,

Phœenix Oil Wores,
:ess
617 Front Street, San Francisco,

## New Bedford Copper Company.

$T$ AEE UNDERSIGNED HAFING BEEN APPONTRED Ageuts for the a bove Company, aro receiving reg
supplies of their superior manúuctures of Sheathing Copper;
Brazier's Copper;
Copper Bolts;
Yellow Sue.ateivg Metal:
Copper and Composition Nats;
Which they offer to the Trade at the lowest marko
ate, and in the most faverable termos.
ate, and on the most favorable terms, MORGAN, STONE \& Co
108 Front Steet, Sun Francise

IMPORTANT!
To Mining Companies, Miners, Frospecting Parties, Commanders
of Ships, \&c., \&c., \&c.
THe UNERSIGNED RIAS RECEIVEI
DESICATED AND COMPRESSED
Or Mesers. CHILLET \& CO., PARIS, which he offers non for sale in ints to snit.
Thinge Veretables being nerfectly fresh und sweet, are the best preventive of scurvey and other diseases result
mg from the con tiuucd use of salt provisions.
 trumsportation. 25.000 rations beiner pached in the shaier of one square yard, while 2,000 ration:- orr cqual tur 1,vec Ibs ifesh vegetanie:-wciph only from 100 ton $1: 5$ muluda aug 3 CBARLES MKINECKE

Offices To Let, In the Government House, Corner or Onices, the most conmodi
A. CRAXE, Itruptictur

Eye, Ear and Throat.
DR, DE CASTRO, Oculist and Aurist,
WYo Mas Practised IN NEW.




## Self-acjusting Artificial Tympanum,

For the relief of deafuers, attended by los-or injury ol
the membrana tympani, and for the cure of discharge fom the car-the thvention of Do Castro, 11 . J., authot
of "Dealiuss Practically Illustrated as to its Nuture and, Treatmert," etc, The sell-adjusing Artificial Tympanum was first intro duced to the notice of the profess juntat the merting of the,
Nedical Society of Lomious on the 20th of luvember Medical Society of lominis, on the 20th of Noveuber
1863 . An animnted discussion insied an the reating on the paper, and several members of the Surjety borut teati-: mony to hes success of the remedy and the importance of the original aiseovery.
Mr. Baker Brown (member) bore testimony to the Solf-1 Adjustinge Artificial Tympanum, as he hat abserved the trom it. She was iu fact, quite deaf, and in 10 must miserable state; the effect of the tyinganum was inatantaue-nus-quite like a mirucle. Five ruorw terlinouials frum
Members of the Medical Collego, New York, and the priucipal cuips of Eurane. Kearny streets. Entrance on Markct street.
wa, Mr. Editor-Maving been aflieted severe cold, and for the last month sultering from the
mosit excrutiating pains io ny ear, I was nbligest to ermo most excrutiating paids io nuy ear, I was obliged to como
dowa to siu Francisco to seek relief, After a pitysicmn's recompadation to wait on Dr. De Castro, nt the concher of,
Keary and Market streets, and underwent one operatian, and it is with the utmost, phonsure I can sity my heraring
was ruddenly and withnod pain entirely restoren. I dem it my futy to make this krown to the bublic, und to recommend Dr. De Castro's skill ns an nurist, NoHa VEESE, Napa Vally. San Francisco, July 30th, 1863.
[From the Daily Alta.]
Sbla Francisco, Juge 30th., 8863.
Permit me through vour widely circulated jnurnal, to say, that iny daughter Mury Elleu, has been afficterl with
deafmess since she was thirteen months ola, fud that she has been a member of the heal and Dumhl finstitute siuce it wastorgatized. On the beal and Dumbl her to Dr. De Castute, siuce the crrner of Kearney and sharbet Strcete, and undergoing uin-
der his direction, two operations, shie has heard sounds, der his direction, two operations, she has heard sounds
vory distinctly; and is now, Tam happy testate in a fir vory distmetly, and is now, Tamhapry te state in a fair
way to get permadent reijef. The restlt, thus fur, is sat. way tory ; and I deem this notice rue tolir. De Castrofor his skill; and would recommend ald partios similarly afGieted to give hima trial My daughter has at differeut times been under the care of the m nt stilful physicians
and aurists in Califurula, but up to the periud of visitiug and aurists un Califurula, but up to the periud of vis
Dr. De Castro, received DO benerfit.
CHAS JOHN $p$.

812 Green Stree

## MINING CERTIFICATE LOST!

Certifite for Ten Shares, No. 33, dated July
he, 1883 , of Tamilpias Gohl and Silver Mibine Company, The fiuder will be suitably rewarded by leaviog it at room 24. Governmenh Block. LOULS EDWARNS

## CHARLES GEDDES,

ARCHITECT,
Cor. Montgomery and Bush Streets,
Ovar the Mereantile Library Rorme,

# LIST OF INCORPORATED MINING COMPANIES, 

giving tie names of the companies, names of secretaries, localities of mines and offices.
Wo present our readers, to-day, with a Supplementary Edition of cight pages containing, Ajar, gold and silver, Coso District, V B Post, Lucas \& Turner's Building.
a zevised list of Incorporated Mining Companies. This list contains the names of over One, Adona, gold and silver.
$h o u s m$ and Comprenies, with their Secretaries, location, etc. In addition to these we give the Am. Baltirnore, gold and silver, J Crocker, 413 Montgomery street. bames of upwards of three hundred other companies, the names of whose secretaries and Atlas, gold and silver, Esmeralda District, L D Ingoldby, 80 Merchant street. ther data, we have not yet been able to obtain. We shall issue another edition of the Di- Argenti, gold and silver, lectory in about a month from this time, which we are desirous to make as full, complete and A lcatraz, gold and silver, borfect as possible. Any changes which may be made in the mean time, if handed in, will be Alice, gold and silver, Mogal Mining District, M. L. McDonald, 34 Metropolitan Block, orrected in that issue, and any additions made.

Antelope Con. Ex. M. Co. Del Norte connty,
The work, we are doing, is an entirely gratuitous one. The Directory is furnished to Amelia, gold and silver, Praire District, Ei Do counny, D F Verdenal, 636 Clity street. ubscribers without extra charge, as a supplement to our regular edition. We have made Alamo, gold silver and copper, Contra Costa county. J W Crosley, Goverument House. breral hundred additions to our last issue, and a great number of corrections. All must Albany West, gold and silver, Slate Range. dmit the importance and convenience of such a publication. In fact it has become quite a Alameda Coal Mining Co., Alaneda County, L Franconi, Lucas \& Turner's Building. ecessity. The Secretary of every Mining Company owes it, as a duty to his Companies Ashim, gold and silver, Esmeralda District, I N Choynsky, Esareralda. nd to the public, to see that all the Companies which he represents have a place in this Atwill, gold and silver, Flowry District. 'I Brownjohn, 621 Clay street.

pirectory. Whenerer a change is made in the location of the office or the name of a Sec- American Eagle, gold and silver, Excelsior Distriot, Wm E Gaivy. 619 Merchant street. fatary, the fact should be promptly communicated to this office, so that it may appear cor- Atlantic, gold and silver, Monitor District, T J Owens, 1 Armory Hall. | ected in the next issue. Such attentions will sare a great amount of labor on the part of Astor, gold and silver, Echo Dist. Humboldt Co., Ferdinand Vassuult, 4 Barron Buildiug. |
| :--- |
| pdividual stockholders who may have business at the offices of the various Companies. |

Lemania, silver, Lower California, Mexico, A Marcus, 519 Montgomery street shby Stewart, copper, Garden Dist, Placer county, J H Culver, 43 L street, Sacramento aglo Saxon, copper, Garden Bar Dist, Placer county, J H Culver, 43 L street, Sac. pollo, g and s, Reese $R$ ver Mining Dist, 228 Front street
nderson, copper, I C Pray, 626 Merehant street.
dmiral gold and silver, Sierra Dist, Humboldt, M M Barker, 406 Montgomery street ntelope Consolidation, cop, Antelope Dist, Calaveras co, M Waithal, Jr, 228 Montg. St pache Chief, gold and silver, T Brownjohn, 621 Clay St.
cetiz, G \& S, Esmeralda, R Robinson, 636 Sacramento St.
lbion, G \& S. Slate Range, James Hitchings, 13 Mead House.
lika, G \& S, Silver mountain, 0 Christensen, 213 Jackson St.
lustra, gold and silver, C B Hart, 15 Metropolitan Block.
atelope, gold and silver, E-meralda, J F Miller 327 Montgomery street lamo, g., s., \& c., Contra Costa, Co., J W Crosley, 9 \& 10 Gouernment House. delaide Consolidated, gold and silver, Silver mountain, R Clarke, Met. Block. ntelope Spur, silver, Esmeralda District. T L Bibbins, 305 Montgomery street. lemania, silver, San Antonia, L. C., L Landaberger, 519 Montgomery street. libioa, gold and silver, Slate Range District, W H Clark, 224 Montery street. magosa, silver, Salt Spring District, J A. Rawsom, Athenæum Building. ugusta, silver. Calavaras Co.,
uatin, silver. Esmeralda District, R 0 Sturtevant, 428 Montgomery street. anapolitan Con, silver, Esmeralda District, C E Buckingham, 607 Clay street. merican Pioneer, silver, La Paz, New Mexico, G W Blake, 224 Montgomery street. shland, gold and silver, Virginia District, Those Brownjohn, 621 Clay street. Ita, silver, Silver City, L D Iagoldsby, 80 Merchant street.
ntioch, copper.
zetic, gold and silver, Esmeralda District, T L Bibbins, 305 Montgomery street. catraz, silver, Reese River District, A. S Gou'd, 528 Clay street.
bbe Faria Mining Co.
bisal, gold and silver.
mazonia Mining Co. Reese River, R T Polk, 56 Matropolitan Block. nas Smith Mining Co. Reese River, R T Polk, 56 Metropolitan Block. merican Freeman, gold and silver, Thos. Hill, Pioneer Building.
guas Calientes, gold and silver.
merican, gold and silver, Star District, W H Martin, 617 Clay street. mazon Tunnel Co.
merican, gold and silver.
rizona, silver and copper, La Paz, Thos. Brownjohn, 621 Clay street. stor, gold and silver, Gold Hill, N' T. E C Lovell, 436 Jackson street. tlantic, gold and silver, Pacific Ledge, LF Yates, Virginia City.
lban, gold and silver.
cgantoro Mining Co.
GRO. W. CHAPIN \& CO., EMTPLOYMENT, REAL ESTATE AND MINING AGENTS, NO, 708 KEARNEY STREET, SEE LAST PAGE

Banner, go'd and silver, Esmeralda District, R N Van Brunt, 706 Montgomery street. Baltic, gold and silver, Gold Hill District, W W Coryell, Virginia Oity
Best \& Belcher, gold and silver, Virginia District, H E Woodruff, Gold Hill
Buffalo, gold and silver, Green Horn District.
Bodie Bluff C. T. \& M. Co., Bodie Mining Dis. Cail., J F Sterling, 33 Montgomery Block. Breanus, gold and silver, Virginia District, D F Verdenal, 636 Clay street.
Bajazette \& G. Era, go'd and silver, Virginia Di trict, $R$ D Furguson, Virginia City.
Bamboo, gold and silver, Esmeralda District, J W Gould, 406 Montgomery street,
Bodie No 2, gold and silver, Bodie District, Cal., A L Chamberlin, 413 Montgomery St
Braston, gold and silver, Humboldt District, Wm P Deukla, 413 Montgomery street.
Big Baby, gold and silver, Esmeralda District, E. Daniels, Express Building.
Blue Mountin, g ld and silver, Calaveras Co., Hugo Dreschfeld, 24 Naglee's Building.
Bohemia, gold a sid silver, Mono Co.
Barker, gold aud silver, Am. District, H. C., J S Luty, 305 Montgomery street.
Blue Ridge Mining Co., Slate Range District, G J Turner 606 Montgomery street.
Bohemia, gold and silvcr, Mons Co.,
Barker, gold and silver, Am. District, H. C., J S Laty, 305 Montgomery street.
Blue Riilge Mining Co., Slate Range District, G J Turner 606 Montgomery street.
Buena Vent.ra, G. aud S., Aurora, Mavo Co., Wm V Garrey, 612 M reh nt street.
Best Chin e, grold and silver, Echo Dist., Nevada T., Geo. E. Phelan. 726 Montgomery St
Brazer, gold and silver, Esmeralda District, T H Templeton, 550 Clay street.
Big Chief, gold and silver, Esmeralda District, P B Cornwall 608 Merchaat street.
Bluc Ledge, gold and silver, El Durado Co., A St E Denver, Coloma.
Benson, gold and silver,
Bamboo Ohief, gold and silver, Silver mountain Dis., ' J Oweus 1 Armory Hall. Bennington, gold aud silver.
Buckeye, gold and -ilver.
Brennus, gold and silver, Devil's Gate Distric ${ }^{4}$, F. W. Gross, 436 Jackson street
Barclay \& Smith Mining Co., gold \& silver, Reese River, R. I'. Polk, 56 Metropolitan Blk
Barnard, gold and silver,
Boston, copper,
Black Belt, gold and silver.
Brewster, gold and silver, Esmeralda Distict,
Baltimore Americ : n, gold aud silver, J L Pool, 540 Washington strezt.
Black Bess, yol 1 and silver.
Bay State Tuınel Co.
Big Tree, gold and silver, Amador Co., T J Owens, 1 Armory Hall.
Big Blue Lead, gold and silrer.
Baltimore, gold and silver,
Bralley, gold and silver, Ree e River District, J L Pool, 540 Washiugton street
Black Rock, gold and silver,
Baron Rothchild, gold, silver \& copper
Battle Snake, gold and silver,
Byrd's Valley, quartz,
Baron, gold and silver,
Batler, gold and silver, Wan E Moody, 706 Montgomery street.
Broadhead, gold and silver, Thomas McCallan, 622 Clay street.
Brraiagham, gold and silver,
Beverly Con'd copper, Ll Dorado Canon, J P Nourse, Lucas \& Turaer's Building Bigler, gold and silver,

Belknap Mining Co. F W Gross, 436 Jackson street
Bunker Hill, gold and sitver, Santa Clara District, W H Martin, 617 Clay street.
Buena Ventura Min'g Co., Sonora, Mexico,
Barry Silver Mining Company, Slate Range District, EJward Barry, 636 Sacramento St. Blue Ledge Lovell, silver,
Baltic Con., gold and silver, Smoky Valley, N. T.
Bırber, gold and silver, 'Thos. Brownjohn, 621 Clay street.
Black Mountain, copper,
Ban Franklin, gold and silver, Humboldt District, Jas Herrick, 606 Montgomery street.
Buena Vista Mining Co.
Big Cañon, gold and silver, Tuolumne connty, J W Gould, 406 Montgomery street
Barreteros Mining Co. Sinaloa, Mexico, F Vassault, 4 Bolton \& Barron's Blag.
Black Hawk, gold and silver, Silver Hill, Thos. McCallan, 622 Clay street.
Bonita, silver, F W Gross, 436 Jackson street
Blanding, gold and silver, Virginia District, Henry Toomy. 402 Montgomery strect.
Bay Copper; gold and silver, Clayton D. Con. Cus. S F Giinore, $30 \overline{0}$ Montgomery street Boston Ravine, gold and silver,
Blue Comet, gold and silver,
Bexar Mining Co.
Burlington, gold and silver, Esmeralda District, J F Sterling, 33 Montgomery Block.
Blue Ledge, g \& s, Kelsey district, I D Ingoldsby, 80 Merchant street
Boo, gold and silver, Silver Mountain
Big Giant, gold and silver, Lauder county
Baltimore, gold and silver, Silver Mountain
Black Ledge, gold and silver, Reese River
Belfast, gold and silver, Devils Gate
Benjamin, gold and silver, Devils Gate
Clear Creek Silver Mining Co., Sierra Dis., N. T., John M Burnett. 536 Washington St.
Combination G. \& S. Mining Co., Telescope Dis., David Wilder, 522 Montgomery St.
Clara G. d S. Mining Co., Ingo Dis., David Wilder, 522 Mongomery St.
Chilpanziago, silver, Mexico, H C Kibbe, 512 Sacramento street
Consolacion, silver, Durang3, Muxicu, Michael Hawkins, 403 Pine street
Cumberland, copper, Garden Bar Dist, Placer coun y, J'H. Culver, 43 L street, Sacramen to Chicago, g and 3, R 3ese River Dist, 228 Front street
Cherokee, $g$ and s, Echo Dist, Humboldt, L Franconi, Lucas \& Turner's Building
Capitola, gold, silver and copper, Uvas Dist, Santa Clara co, D R Beckford, 328 Mont. St
Copper Age Mining Co., J W Crosly Montgomery St.
Cinio de Mayo, gold and silver, C B Lafitte.
Clear Creek, silver, C Stevens, 505 Montgomery St.
Caba, gold and silver, Humbuldt N. T.. E Flanagan, Naglees Building.
Columbus, gold and silver, C B Hart, 15 Metropolitan Block.
Cox and Rose G. \& S. Mining Co., Reese River, Wm Hollis, 410 Montgomery street
Chrysopolis G. \& S. Mining Co., Silver mountain, Mono county, E C Lovell, 436 Jackson St
Copper Age Mn'g Co. Clayton dis., Contra Costa co, J W Crosley, 9 \& 10, Governm't Hse
Contra Costa, g. s. \& c., Contra Costa co., J W Crosley, 9 \& 10 Government House.
Cammeron, gold and sitver, Ohio dist., Hu mboldt, G Falkenstein 426 Montgomury street
Cal. Copper Smelting Works, Antioch, R Emerson 540 Clay street,
Columbia G., S. \& C. Mining Co., La Paz, Arizona Ter., Gould, 530 Clay street.
Chautague, Silver Mining Company, Reese River, R N Van Brant, 706 Montgomery street
Chrystal, g \& s, Silver mountain district, J L Pool, 540 Washington street.

Consolidated, copper, Copperopolis, Richard Powning, Superintendent
Calaveras, copper, Copperopolis, Richard Powning, Superintendent.
Cuba, gold and silver, Hamboldt district, E Flanagan, 8 Naglee's Building.
Crœsus, silver and copper, El Dorado Canon,
Capiapo, silver, W P Dewey, curner Clay and Montgomery street.
Constantia Mining Co. Humboldt district, J H Gager, Montgomery B'ock.
Copper Hill Mining Co. Soledad district, Los Angeles, E Barry, 636 Sacramento street. Crown Lead, gold, silver and copper, Mariposa County, Joha WV Gould, 406 Montg. st. Cinco Senores, gold and silver, Sinaloa, Mexico,
Chnyno, rold avd silver, Esmeralda district, D S Levy, Esmeralda.
Cincinnati, silver, Reese River district, P B Cornwall, 608 Merchant street.
Camanche, gold and silıer, Sugar Pine district, A S Gould, 528 Clay street.
Cash, gold and and silver, Palmyra district, A L Chamberlin, 413 Montgomery street. Consolacion, silver, Durango, Mexico, M Hawkins, 403 Pine street.
Codicia Silver Mining Co. Gold Hill District, S B Rooney, Government House.
Carrazalita Silver Mining co. Gold Hill District, is B Rooney, Gorernment House.
Clio, gold and silver, Tuolumne Co. J F Pope, 115 California street.
Cumberland Consolidated, gold and s lver,
Central. silver, Virginia District G B McAneny, 712 Montgomery street.
Califoruia, silver, Yirginia District, D W Young N E corner Montgomery and Jackson. Carson R,ver, gold and silver,
Cole, silver, Virginia District, W E Wood, 123 California street.
Cedar Hill Tuanel M Co. C L Farrington, 509 Sacramento street
Copper and Silver City, gold and silver, Silver City, E H Platt, Virginia City.
Cheuango Mining Co. W F Dean, 53 Montgonery Block.
Oon. Silver Hill, gold and silver, Esmeralda District. S Pattee, 522 Montgomery street Crown Point, gold and silver, Gold Hill District, S B Rooney, 11 Government IIouse Chas Cany Mining Co. Devil's Gate District, Gomer Evans, 338 Montgomery street. Combination, gold and silver, Telescope District, David. Wilder, 522 Montgomery street Consumes Miniug Co. Sacramento Co. -- Daylur's Ranch.
Carbon Hill, Mining Co. Virginia District, ———Aurora, Mono Co.
Cape, silver, Esmeralda District, H S Sanders Aurora, Mono Co.
Crescent, gold and silver, Van Horn Dis. J S Luty, 305 Montgonsery street.
Corcoran, gold und silver Esmeralda District, J Woodthorpe, 326 Clay street.
Carrie Bell, gold and silver, Esmeralda District, W L Duncan, Piodeer Hall.
Cedar, gold and silver, Esmeralda District, 'T' L Bibbins, 305 Montgomery street. Cook, gold and silver, Esmeralda District, T L Bibbins, 305 Montgomery street.
Cocheco Mining Co. Humboldt District, N B Mulville, 606 Montgomery street. Caledonia, gold and silver, Gold Hill District, W B A gard, 412 Front street.
Chrysopolis, gold and silver, Virginia District, H Toomey, cor. Montg. and California.
Colorado gold and silver, La Paz, N M. R E Raimond, 1515 Front street.
Cataraugus, gold and silver, Slate Range District, A H Clark, 522 Montgomery street. Clear Creek, silver, Washoe \& Eagle District, U Stevens, 6 Parrott's Buildiug.
Chrysopolis, silver, Mono County, J H Gager, Montgomery Block.
Collins, gold and silver, Esmeralda District,
Concert, gold and silver, Esmeralda District, Thomas Brownjohn, 621 Clay street.
Cayuga Mining Co. Slate Range District, G J Turner, 606 Montgomery street.
Croesus, gold and silver, Eagle \& Washoe district, J P Nourse, Lucas \& Turner's Building Christiana, gold and silver, Esmeralda district, J H Purkitt, 40 Metropolitan Block, Chicago, gold and silver, Esmeralda district, J Woodthorp, 326 Clay street. Corinthian, gold and silver, Esmeralda district. J IH Purkitt, Metropolitan block. Colusa, gold and silver, Prince Royal district, M G Elmore, 528 Montgomery street.
Cedar, gold and silver, Esmeralda district, T L Bibbins, 305 Montgomery street.
Clemens, gold and silver, Esmeralda district, C E Buckíngham, 607 Clay street.
Combinatiou, gold and silver, Telescope district' David Wilder, 522 Montgomery street. Chicago, gold and silver, Silver mountain district.
Cassandra, gold and silver, Esmeralda district.
Comet, gold and silver, Russ district, D Wilder, 522 Montgomery street.
Congress, gold and silver, Slate Range district, W W Lawton, 400 Montgomery street Comstock, gold and dilver,
Camille, gold and silver,
Coffee, gold and silver,
Constellation, gold and silver, Humboldt district, V B Post, Lucas \& Turner's Building Casket, gold and silver,
Cleopatra, gold and silver, Wm H Watson, 607 Clay street.
Carico, silver, Reese R'ver district, A S Gould. 528 Clay street.
Cassius, gold and silver, Buena Vista distrist, F R Jenkins, 80 Merchant street. Cloud, gold and si'ver,
Caledona Tunnel, M Co. Gold Hill District, S B Rooney, Government House. Columbia Mining Co.
Chilon, gold and silver, T B Robinson, 896 Front street.
Commonwealth, gold and silver,
Charles Cany Mining Co., Dzvil's Gate, Gomer Evans, 338 Montgomery street. Carltou, silver and copper, Weaver District, C T, G J J'urner, 606 Montgomery street. Celestia, silver and copper, Weaver District, C T, G J Turner, 606 Montgomery street. Chimney Rcck, gold and s,
Curtis Mining, Co. Reese River District, M R Wallis, 15 Metropolitan Block. Converse \& Munckton ' $\mathbf{T} \mathbf{C}$,
Cortez, gold and silver, minig co, Cor. dis, R N Van Brunt, 706 Montgomery street. Congress, silver,
Commerce, silver
Commerce, silver
Cosmopolitan, gold and silver, Monitor district, Am Co. T J Owens, 1 Armory Hall.
Capital, gold and silver, Reese River district, M L McDonald, 34 Metropolitan Block.
Caycroft, gold and silver,
Croesus, gold and silver, Ormsby County, J H Gager, corner Montgomery and Merchant Carson, silver,
Consolation, gold and silver, A H Griswold, Virginia City.
Crown Lead, g. s. and c., Colorado Ravine, Mariposa County, J W Gould, 406 Montr'y st.
Cosette, silver and copper, L Franconi, Lucas \& Turaer's Building.
Contra Costa, gold \& silver, J W Crosley, Government House.
Cayuga, gold, s:lver and copper, Van Horn District, C W Cartis, 606 Montgomey street. Chihuahua Mining Co,
Comet, gold and silver,
Constitution, gold and aud silver, Lander County, N T, J C Ford, 607 Washington street.
Croesus, gold and silver,
Cobra Rica Mining Co. Weaver district,
Cambridge, silver, F W Gross, 436 Jackson street.
Cabezon Mining Co.
Central American, g\& s, Gold Hill district, J L Pond, 539 Washington street.
Chollar, silver, Virginia District W E Dean, 53 Montgomery Block.
Coso, silver, Coso District, D W Chambers, 11 Court Block.
Chicago and Detroit Consolidated, $\& \&$ g, Monitor dis.,

Calaveras, silver, Silver Mountain district
Comstock, gold and silver, Alpine d, Am c.
Clara. guld and silver. Inco district
Clay street, e and 3 , Red Mountain, N T
Daniel Webster, gold and silver, Devil's Gate Dis., Alex Stott, 512 Sansume St.
Yubuque, gull ami silver, H Y'ichoir, eor, Jackson do Mantronucry sts. Ilianomed, ral! !and silver, ('B Hart 15 Metromplitan Black.
Die Vermon, silver, 12 'T' I'ulk. it Montenmery Block
1 liana, $g$ and s, Rerese River Dist. as 8 Front street
Jonophan, ${ }^{2}$ and s, Humhahlt list.. N 'T', II C Kibho, 542 Sac. street Desert Mining Co., Flowery Dis., N. T., David Wilder, 522 Muntromery St Del Rey, Silver Mining Co., Devil's Gate Dis., N. T., Darid Wilder, 522 Montcomery St. Don Juan f. it $S$. Mining Co., Fimerada Bis. Jawid Widder, 522 Montgomery 5 t. De Soto, fuld and silver, Star Ihis. Hummhle, N. 'I'.. Juln M Bumett, 536 Wiashington St. Deart Mmm: Cu. Flowery I listrict, I) Wihler, 5 2e. Montromery street.
lhaner, fold and sifer, Devil's Gate Ihistrict, A De senailhac, Guvernment IInuse. Lius Padre, gold ant silver, Sonora, Mexicu. I 'T' Nesmith, 502 Montgomery street. Dogle, guld and silver, Esmeralla district, J. Woodthorpe, 326 Clay str et Do Soto. guld and silver, Stir district, IR C Puge. 428 Montgomery street.
Danube, guld and silver. Esmeralda district. J II l'urki t, 40 Metropolitan Building. lane, gold and silver, Esinerahda district, J la Beard, 4 Armory Hall.
havis C'onsolidation, guld and silyer, lismeralda dist. C' E Buckingham, Aurora, Mono, Co. Dayton, gold and silver, W II Watson, 607 Clay street.
Donophan. gold and silver,
Deposit. gold and silver, R Clark, 422 Montromery street.
Del Monte C'ross C'onsolidation, gold and si ver,
Doll, gold and silver, John Fowler, corner Clay and Battery.
Dal Rey, silver, Devil's Gate District, David Wilder, 522 Montgomery street.
Dannebroge. gold quartz, Y'uba County, ('L Farrington, 528 Sacramento strect. Don P'edro gold and silver, Esmeralda district, J H Purkitt, 40 Metropolitan block. Dona Carolina, gold and silver,
Dashaway, gold and silver, Esmeralda, J F Miller, 327 Montgomery street.
Delta, gold and silver, Esmeralda district, P B Cornwall, 608 Merchant street.
Dixon, gold and silver, 'Table mountaiu district, E Flanagan, 8 Naglee's Building. Douglas and Fillmore Con. gold and silver, San Francisco district, W Hullis, 110 Mont. Dawa Farm lquary, Devil's Gate district
Dinna, gold and silver, Reese River
Dun Juan, gold and silver, Esmeralda
Dowd, gold and silver, Lron County
Dimes Jo 2. gold and silver, Esmeralda district, J A rmstrong, 610 Merchant street. Delaware, Virginia district, _— Purdy.
Detroit, gold and silver, Humboldt district, V B Post, Lucas \& Turner's Building.
Dundas, gold and silver, Devil's Gate
Defiance, gold and silver, Gold Hill
Delfina, copper, Sonora, Mexico
Dexter Mining Co. Silver Butte district
Dundas, gold and silver, Silver City District, J H Purkitt, 40 Metropolitan block.
Del Monte Cross Con. G \& S Mining Co., Esmeralda, Wm T Atwood, 224 Montg'. street. Diamond, gold and silver, Reese River
Douglas, gold and silver, Lander co
Dl Dorado, guld and silver, Silver mtn dis.
Express Mining Co., Russ District, David Wilder, 522 Montgomery St. Eureka \& Elizabeth Con. S. \& C., Calaveras county, R F Roth, 515 Market St. Excelsior, G \& S. Lander Co., N. T., N B Mulville, 606 Montgomery St. El Tesora S. M. Co., Lower California, H C Kibbe, 542 Sacramento street. Enterprise, $g$ and $\&$, Colorado Dist, New Mexico, $R$ Clark, 422 Montgomery street EI Dorada Consolidation, $g$ and s, Devil's Gate Dist, Lyons co, N T, J F Pope, 13 Cal. St. Eclipse Tunnel Co, Hamboldt, L Franconi, Lucas \& Tarner's Building E. L. Sullivan's Mining Company, San Francisco District.

EL Dorado, Con. gold and silver, J F Pope, 113 California Street.
Fmma Antonette, gold and silver, E Chevassus, 716 Montgomery St. Eastern Star, O W Hayden, 606 Montgomery St.
Eureka, gold, Sampsom Tams, 214 California St.
Eastern G. \& S. Mining Co., Recse River, Wm Hollis, 410 Montgomery street. Express, gold and silver, Palmyra district, J F Miller, 327 Montgomery street. Express, gold and silver, Silver City District, J. H. Purkitt, Metropolitan Block. Ceho, g. \& s. M. Co., Gold Hill district, N. T., N Shiverick 605 Clay street. Echo Extension, gold and silver, Gold Hill district, N. T., N Shiverick 605 Clay street. E1 Gran Roder Copper Mining Co., La Paz, Arizona Ter,, R Emerson, 540 Clay street. Esmeralda, silver, Esmeralda district, S Pattee, 522 Montgomery street.
Esmeralda lsa Extension N M Co. Esmeralda district, S Pattee. 522 Montgomery street Fastern Slope Mill \& M Co. Silver City, J J Cushing, 727 Clay street. Excelsior Mill \& M Co. Silver City, --Silver City.
Early Dawn, gold and silver, Devils Gate district, J H Brewer, 40 Montgomery street. Estrick, gold and silver, Esmera'da distsict, T L Bibbins, 305 Montgomery street. Emmett, Gen. gold and silver, Esmeralda district, John Woodthorpe, 326 Clay street. El Dorado, gold and silver, Virginia distric', Henry ''oomey, corner Montgomery and Cal. Everett, gold and silver, Humboldt district, J H Gager, Montgomery Block. Eropire, gold and silver, Silver City, B P Ridgway, Metropoliton Hotel.
Empire, gold and silver, Esmeralda district, UH Wakelee, 612 Merchant street. Eltesoro, gold and silver, Lower California, H E Kibbe, 542 Sacramento street. Eagle Mining Company, J C Hopt, N W corner Montgomery and Commercial. Emma, gold and silver, Dayton, Lyon Co. - - Dayton, Lyon Co.
EtreL:a. Del Monte, gold and silver, Humboldt disirict, J H Gager, Merchant street. Esmeralda, gold and silver, Buena Vista, H Co.J S Luty, 305 Montgomery street. East Antelope, gold and silver, Silver Hill district,J H Blood, 7 Montgomery Block. Fimpire Mill and Mining Co Gold Hill district, G R Spinney, Metropolitan Block. Electrical, gold and silver, Esmeralda district, E Worth, 547 Washington street.
El Alamo de San Antonio, S Antonio, LL C
El Taste, silver, Sonora, Mexico Francisco
Ellery, silver, Smoky Valley
Eclip-e Tannel co Humboldt co
El Tigre a Colorado, gold and silver, Durango, Mexico, C L Farrington, 528 Clay street. Enterprise, gold and silver, El Dorado Canon, R Clark, Lyceam Building. Exchange, copper, Del Norte county, H. S Dalliba, 604 Montgomery street.
East Range, g and s , Humboldt co
Enterprise, $g$ and s, Colorado district
Empire Mining and Tun. co, Humboldt co
Fmigrant No 2, g and s , Lyon co

Fimpire gold and silver, Coso, I F Miller, cot Washington street.
 Einterprise, copper, l’lacer Countr, il (i) Elmore, $52 \times$ Muntgomery street. El Pazo. robld and silver, Esmeralda district, J F Sterling, 33 Montgomery Block. Fommerala Spur, pold and silver. Esmerahda district, " Wi Curtis, G06 Montgomery street. Fthan Allen guld and silver. Recere Riverdis>rict. M L, MeDonald, $3 \pm$ Metruphliton Block. lvangeline, gold and silver, (foll Hill district. Kif frimes, 4 and 5 fivermment Houso.
 Fiatern (front lead) M (cu. Virsinia district, J S Davis, 15 Montgamery Bluck.
Kivoca Consolidution, cupper, Del Nurte district, E Barry, 636 S'acramento st. eet.
Federal State G \& S Mining Co., Middle Hill, Eameradla district.
Fid. lity, g, s and e, Contran Costa Co., J A WVoudsom, Larrun's Building, Merchant street. Fair Play, copper, gold and silver, Shay (iulch, J II Fry, Metropulitan Block. Federal and lepublic, silvec, Virginia di-trict, N. 'I', N. Sh rerick, f(1)' Clay street. Fortune, whol and silver, ('innahar dis.. I umbuhtt, G Falkenstein, 426 Montgrumery street. Frameis, silver, A if (hark, 5m, Montex Stutt, Jl2 Sansome St.
Francis, silver, A If Clark, 5222 Montgomery St.
First South-cast Extension, silver, Slate Kange, A JIClark, 512 Montgomery St.
Freylonrg, silver, (xold Hill, IS Poul. ito Moitgomery it.
Fruak, g and s, Silver Mountain, T' J Owens, 502 Muntgromery street
Flume Ledge, gand s, Montgomery Maze, Governmeut House
Franklin, G \& S, Lander Co., N. 'I'. II S Lbwoks, Govermment House.
Falls of Clyde, gold and silver, Esmeralda district, W L Duncan. Pinoeer Lall. Flowery Lill Co. Flowery district, James F'eck, Tot Sansume street.
Foundation M and Trust Co. Esmeralda district, A Daridson, Oakland, Alameda County. Franco-Americna, gold and silver, San Antomio, L C, A S Gould, 528 Clay street.
Flyaray, gold and silver, Esmeralda district, P B Oppenheimer, Aurora, Mono County. Fulton, gold and silver, Esmeralda district, J II Bluod, 7 Montgumery Block. Federal Uaion, gold and silver, Esmeralda, ilisirict, J T Baily, Metropolitan Block Franklin Tunnel Mimny Co. Esmeralda district, P B Cornwall, 608 Merchent street. Frankfort, Esmeralda district, Jno M Burnett, C05 Muntromery street.
Francis Ist S E Extension, gold and silver, Slate Range district, A IF Clark, 522 Montg. st. Filmore, gold and silver, Slate Range district, IV W Lawton, 400 Muntromery street. Federal Hope Consolidation, gold and silver,
Fort Pitt, gold and silver,
Foundry, gold and silver, W W Wiggins, 608 Montgomery street.
Fork, gold and silver, Blae Mountain district, W H Jessup, 33 Fremont street.
Fort Point, gold and Silver, El Dorado countyJ F Miller, 327 Montgomery street. Flor de San Antonio, gold and silver, John Fowler, Clay st. corner of Battery. Foundling, gold and silver, Wm F: Moody, 706 Montgomery street.
Felix, g \& s, Devil's Gate District, William Willis, 712 Montgomery street. Fanny Read, silver, F W Gross, 436 Jackson st eet.
Federal Republic, silver, Virginia District, N Shiverick, cor. Montgomery and Clay streets Fellows Quartz Mining Co., Sierra county, L Franconi, Lucas \& I urner s buildiog. Falstaff Mining Co., J I' Bailey, Metropolitna Block:
F C Lnomis. gold and silver, Gold Hill District, S'L' Steele, Virginia City.
Flor Nightingale, gold and silver, Esmeralda
Fairchild, c, gold and s, Spring Valley
Forest Queen, gold and silver $G$ Mogul dis
'420" Mining co, Virginia district
Favarite Miniug co, Virginia district
Flowery, Flowery Distriet, J G Gilchrist, Virginia City.
First S. Chinuahua Mining Co., Esnueralda District, W W Lawton, 400 Montgumery St. Federal Hope, gold and silver, Esmeralda District, Thos. Brownjuln, 621 Clay street.

Golden Era, gold and sillver, O B Hart, 15 Merropolitan Block.
General Kibbe G. \& S. Mining Co., Esmeralda Dis., David Wilder, 522 Montgomery St. Great Central Mining Co., H C Repps, 542 Sansome St.
Golden Wedge, silver, Gold Hill, N Shiverick, 605 Clay Street.
Great Western Tunnel Co., Esmeralda Dist, Janues C Ford, $60 \%$ Washington street Grissim Consolidation, W U Budd, Got 7 Washington street
Granite Copper Mining Co, Contra Costa county, F H Rogers, 607 Washington street. Great Chieftan G \& S Mining Co., Suokey Valley Dis., T Wetzel, —_street. Great Repablic, gold and silver, Silver City District, J H Purkitt, Metropolitan Block. Golden Gate, silver, Gold Hill distr. N. T., N Shiverick, 605 Clay street.
Golden Hedge, gold and silver, Gold Mill dist. N. T., N Shiverick 605 Clby: street. Golden Magnet, gold and silver, Cinnahar dist. Humboldt, G Falkeinstein, 426 Montg'y st... Golden Wedge G \& S Mining Co., Esmeralda Dist, Wm T Atwood. 224 Montgomery. St. Gen. Jackson, gold and eilver, Devil's Gate Dis., Alex Stott, 512 Sansome St.
Great Western Tunnel \& Mining Co., Esmeralda, Joseph C. Ford, 607 Washington street.. Great Central Min'g Co., Colorado River, A. T., H.C Kibbe, 542 Sac. street Guadalupe, silver, Chihuahua, Mexico, Wm Blackwood, 742 Washington street, Gould \& Curry, gold and silver, Vir"a Dis't, J C I. Wadsworth, Lucas \& Turner's building Good Hope, Nevada Territory, D Davidson, 338 Montgonery street.
Great Central Mining Coo, J W Collins, 326 Clay street.
Garibaldi, gold and silver, Esmeralda Distrect, J T Nesmith, 10 Armory hall.
Gazelle, gold and silver, Esmeralda District, Daniel Clark, Court Block.
Governor, Devl's Gate District.
Gold Hill Union Mills, gold and silver, Gold Hill Dist, J F Sterling, 33 montgomery block Great Western Mining Co., Coso Dist., T'ulare Co., Barclay Henley, Express Building. Gen. Grant, gold and silver, Esmeralla District.
Gen. Jackson, gold and silver, Esmeralda District, P B Oppenheimer, Aurora.
Golden Age, gold and silver, Humboldt District, A L Chamberlia, 413 Montgomery St. Green, gold and silver, Gold Hill Dist.
Gubernadora, silver, San Antonio, L. C., C W Hayden, 606 montgomery street.
Gov. Seymour, gold and silvir, Reese River district, D B Francis, 228 Front street.
Gen. Hooker, gold and silver, Virginia district, J H Brewer, 40 Montgomery block. Guadalupe de Los Angeles, gold and silver, L A Sanderson, 1 Armory hall.
Georgiana, gold and silver, Slaie Range District, W W Law:on, 400 Montgomery street. Golden Era, silver, F W Gross, 436 Jackson street.
Gen. Hooker, gold and silver.
Golden Age and Emp., gold and silver,
Gen. Hooker East, gold and silver.
Golconda. gold and silver, Reese River District, M L McDonald, 34 Metropolitan block.
Great Western Tannel \& Mining Co., Coso district, W W Lawton, 400 Montgomery St. Gov Stanford, gold and silver,
Golden Wedge, silver, J P Nourse, Lucas \& 'Turner's building.
Gold Eill Quartz Mill \& Mining Co., Gold Hill district, Wm V Garvey, 619 Merchant St. Gould \& Curry No 1 Mining Co.

Globe, gold and silver, Wm. H Watson, Aurora.? Grand Turk, goll and silver, Wm H Watson, Aurora. $\}$ Gray Eagle, gold and silver, Wm H Watson, Aurora.) Gem, gold and silver, H meralda district, T Fliteroft, 6
Gildersleeve, gold and silver.
Good Hope, goid and silver.
Great Eastern, g and s, S:Iver Mountain
Gev. Downey Con. g and s, Humbuldt co
G ld Bluff Mining co, Humboldt co
Geo. Washiugton, $g$ and $s$, Oro Fino dis
Gen. Hill, silver, Summit district
Great Chieftain, g and s, Lander co
Gortha Mining Co, Esme alda district, J H Purkitt, 40 Metropolitan Building.
Green Rock Mining Co, Aagel's Camp, E A Breed, cor Jackson and Mon gomery streets.
Griffin Tannel Co,
Graham, gold and silver.
Gov. Potter, gold and silver,
Geraldine, gold and silver.
Gold Hill, silver.
Grizz'y Hill Consolidated Tunnel Co.
Galvin Mioing Co., Esmeralda district, F. H. Rogers, 607 Washington st.
Golden Age, gold and silver,
Golden Era Mining Co, E C Lovell, 436 Tackson strreet.
Gold Hill Big Ledye Mining Co., Wm Willis, 712 Montgomery street.
Green Monster. gold and silver.
Great Eastern, gold and silver, Virginia District, L F Yates, South C. St., Virginia City.
Gila, gold and silver.
Gov. Nye, gold and silver, Devil's Gate district, Geo. M Blake, 5 Government house.
Golden Rule Mining Co.. Tuolumne Co, J B Russell, 410 M ntgomery street.
Gem of Nevada, gold and silver, Wm Willis, 712 Montgomery street.
Granite Rock. gold and silver, Ceder Hill district, T Brownjohn, $62 I$ Clay street.
Green Rock Tunnel Ce., Fsmeralda district, L D Ingoldsby, 80 Merchant St.
Great Basin Mining Co., Humboldt district, J H Blood, 7 Mongomery Block.
Geo. Emmet, gold and silver, Esmeralda district. J Woodthorp, 326 Clay street.
Grey Ledge, gold and silver, Murphy's district, M G Elmo e, 528 Montgomery street.

Humboldt Tunnel Co., gold and silrer, Esmeralda, F H Rogers, 607 Montgomery street. Harrison Coal and Plaster Mining Co., San Mateo county, J F Miller, 327 Montgomery St Hydranlic mining co, Contra Costa co., Montgomery Maze, 9 \& 10 Government House. Humboldt Great Consols, Humboldt, R F Van Brunt, 706 Muntgomery street.
Herse Shoe, silver and copper, Mont Diablo, Alex Stott, 512 Sansome street. Hope, gold and silver, O B Hart, 15 Metropolitan Block.
Honest Miner, gold and silver, Reese River Mining District, 228 Front street
Horse Shoe, silver and couper, Alex Stott, 512 Sansome St.
Humboldt Great Consols Mining Company, R N Van Brunt, 706 Montgomery St.
Humboldt G. \& S Mining Co., Russ District, David Wilder, 522 Montgomery St;
Harry Raymond G. \& S. Mining Co., Oro Fino Dis. John M Burnett, 536 Washington St. Hornitas, gold and silver, Mariposa county, Washington street.
Harris, gold and silver, Esmeralda district, Hugo Dreschfeld, 24 Naglee's buildi..g.

## Harmon, gold and silver.

Higgins' Hope, gold and silver, San Francisco Co., Huga Dreschfeld, 24 Naglee's building Harker, gold and silver, Reese River district, 228 Front street.
Haral, gold and silver, Sinaloa, Mexico, W H Martin, 617 Clay street.
Hamboldt Mining Co., Galena district, G O'Hara Taaffe, 430 California street.
Fornet Mining Co., Virginia district, C H Light, Virginia City.
Hope Miniug Co., Gold Hill district, F W Gross, 436 Jackson street.
Hale \& Norcross, silver, Virginia district J F Lightner, Metropolitan block.
Harrison, gold end silver, Flowery district, Fenry Toomey, N E cor Mont. and Cal. St.
Hazel Green, gold and silver, Virginia district, T' Brownjohn, 621 Clay street.
Heath, gold and silver, Esmeralda district, H D Bequette, Aurora.
Hawley, gold and silver, Devil's Gate district, C Sterens, 6 Parrott's building.
Humholdt Mining Co., Galena district, J L Pool, 540 Washington street.
Hattie, gold aud silver, Esmeralda district, J H Purkitt, 40 Metropolitan Block.
Hope, gold and silver, Priuce Royal district, L Franconi, Lucas \& 'Turners's building.
Hermine, gold and silver, Esmeralda district, C H Wakelee, 612 Merchant street.
Hayes, gold and silver, Slate Runge district, CH Wakelee, 612 Merchant street.
Hulleck, gold and silver, Great Mogul district. J L Pool, 540 Washingtion street.
Humboldt, gold and silver, Russ district, D Wilder, 522 Montgomery street.
Heckendorn, gold and silver, Blne mtn., Calav. Co., C C Bowman, 726 Montgomery street
Hebe, gold and silver, Reese River district, Wm V Garvey, 619 Merchant street.
Hudson Mining Co., Gold Hill district.
Highland, gold and silver, Humboldt district, Wm A Cornwall, 528 Clay street.
H Raymond, gold and silver.
Halias, gold and silver.
Harrison, gold and silver, Geller Ledge, I F Yates, Virgrnia City.
Halated, gold and silver,
Herzo Consolidation, gold and cilver.
Hensley, silver and copper, Weaver district, C. 'T., G J Turaer, 606 Montgomerg street. Holdridge, gold and copper.
Humboldt Canal Mining Co., Humboldt dist, E A Breed, cor. Jackson and Mont'y Sts. Hartford Tunnel and Mining Co.. R Clark, Metropolitan Block.
Hudson, gold and silver, Devil's Gate District, J L Pool, 540 Washington street.
Hartford Mining Co., Gold Hill distri t, J S Davies, 18 Montgomery block..
Hobson Con. cop. mining co, Santa Clara co.
Harris Bros. gand s, Blue Mountain
Harriet Lane, g and s, Nevada T'er
Hutchinzon, gold, silver and copper
Henrietta and Sophia Mining Co. Lower Cal
High Peak Tuunel and Mining Company.
Ida G. \& S. Mining Co., Russ District, David Wilder, 522 Montgomery St. Ina Ledge, gold and silver, Devil's Gate Dis., J Mulville 506 Jackson St. Illinois Tunnel and Mining Co, Esmeralda Dist, J F Pope, 113 Cal. street I X L, gold and silver, Arizona, N B Mulville, 606 Montgomery St. Isaacs, gold and silver, Esmeraldúa district, Jas. Neary, 326 Clay steert. Independence Qaartz Co.
Iowa, mining co. Virginia district, R N Van Brunt, 706 Montgomery street Ida, gold and silver, Russ district, David Wilder, 522 Montgomery street. Indian Qaeen, gold and silver. Esmeralda district, T L Bibbins, 305 Montgomery street. Ida, gold and Eilrer, Lower California.

Insurance Miniug Co., Jas Gallagher, 706 Montgomery street.
Inadianola, gold and silver, Humbolt District, J F Pope, 113 California street.
Iowa, gold and silver, C V Hobart, 505 Montgomery street.
Indian Queen, gold, El Dorado Caioon.
Irataba, silver and copper, Weaver District, G J Turner, 606 Montgowery st. Tadus, gold and silver.
Indian Chief Lode Mining Co.
Indian, gold and silver, Joln C Leconey, Virginia City.
Indiana, silver
Independent gold and silver. Argentive District, E E Pbillips, Virginia City. Irouclad, gold and silver, El Paso District, Edward Barry, 636 Sacramento st. Imperial, yold and silver. Gold Hill, O T' Hopkins, 405 Front st.
Irving, gold and silver, Virginia District, M IJ Winn, 542 Sacramento st.
Tmperatrice Eugenie, gold and silver, Calaveras Cu.J Woodthorpe, 326 Clay st.
Independence, $g$ and $\varepsilon$, San Francisco dis
Isabel, gold and silver, La Paz
lllinois, gold and silver, Silver mountain dis
Impression, gold and silver, Garden Bar dis
Inyo, gold and silver, Inyo district
Intrepid, gold and silver, Yuba co.
Isabel and Agnes Land, $g$ and $s$, Humboldt d
Jura, gold and silver, John Hunt, Jr., 3 U. S. Court Building.
Jackson, copper, Garden Bar Dist, Placer county, J H Culver, 43 L street, Sacramento Jefferson, copper, Garden Bar Dist, Placer county, J H Culver, 43 L street, Sacramento Joe Lane, gold and silver, Reese River Mining District, 228 Front street
Joe Douglas G. \& S. Mining Co., Reese River Dis., R T' Polk, 56 Montgomery Block. Jefferson, gold and silver, Slate Range, J F Miller, 607 Washington street. Jackson, gold and siver, Esmeralda District, $\quad$, Aurora. Josephine, gold and silver, Coso District, W W Lawton, 400 Montgomery street. Jewel, gold and silver, Devil's Gate District, Cha's Gardner, Barron's Build. Mtrehant strt. Jack Hayes, gold and silver, Esmeralda District, J H Blood, 7 Montgomery block.
Jefferson, gold and silver, Esmeralda District, T I Bibbins, 305 Montgomery street.
Jason Mining Co. Si rra and Nevads Co. L Maubec, 716 Montgomery street.
Jenny Lind Mining Co. Esmeralda District, P B Cornwall, 608 Merchant street.
Juniata West Mining Co. P Bascke, Silver City.
Joe Hooker Mining Co.
Jefferson, gold and silver, Silver City, E N Bashford, Silver City.
Jejeebboy, gold and silver, Santa Clara District, W Sparrow, 543 Clay street. Juniata, gold and silver.
James River, gold and silver, John Gorman 423 Battery street.
Josephine, copper, Calaveras Co. T Brownjohn, 621 Clay street.
Julius, gold and silver, Reese River District, L Franconi, Lucas \& Turaer's bui'ding.
Juno, gold and silver, Esmeralda district, M G Elmore, 528 Moutgomery street.
J C Fremont, gold and silver, Silver Mount.
Julius, gold and silver, Reese River
Joe Lane, gold and silver, Reese River
Jum, gold and silver, Esmeralda
Jefferson, gold and silver, Reese River
Janesville, gold und silver, El Dorado co.
Jefferson Galena, g and s, PlumasCo.
Knickerbocker and Monumental Consolidation, gold and silver, _C, Contra Costa Keystone, copper, Copperopolis, Calaveras county, Joseph Powning, Secretary at the mine. Kentucky, gold and silver, Contra Costa, Cal., H C Kibbe, 542 Sac street King, g and s, Reese River, E C Palmer, Government House
Keetz, gold, Tuolumne county, H C Kibbe, 542 Sac. street
Knickerbocker, gold and silver, Jas Peabody, 542 Sacrameuto.
Kinderbook, gold and silver, A Falk, 605 Sacramento St.
Kay Quartz Lode, Zenas Coffin.
Kohinoor, $g$ and 8 , Big Creek district
Kate Oliver, gold and silver, Argentine dis.
Kinsman, gold and silver, Santa Clara co.
Kelsey, gold and silver, EL Dorado co.
Kohler, gold and silver, Reese River
Kohler Bros. silvi r, San Antonio, L. C., Kohler Bros. Sansome street.
Kohler, gold and silver, Esmeralda District, James Neary, 326 Clay street.
Keokuk, gold and silver, Esmeralda District, O H Wakelee, 612 Merchant street.
Kate, gold and silver, Prince Royal District, L Franconi, Lucas \& Turver's building.
Key Quartz Lode Mining Co. Slate Range District, L R Love, Custom House. King David, gold and silver, Esmeralda District, T' Brownjohn, 621 Clay street. Kenosh, gold and silver.
Katy Wakeman Ledge Mining Co. Washoe District.
Kemp, gold, silver and copper.
King, gold and silver.
Keokuk, copper, A B Winegar, 322 Front street
Keltz, copper, Tuolumne Co. H C Kibbe, 542 Sacramento street.
Kentucky, gold, silver and c. pper.

## Kohler Bros. ilver.

Los Angelos Con. copper, Solidad Mining District, Alfred Densmore, San Francisco.
La Libertod S. M. Co., Lower California, II C Kibbe, 542 Sacrameuto street
La Candelaria S. M. Co., Lower California, H C Kibbe 542 Sacramento street Louisville, g and s, Humboldt Dist., N T, H C Kibbe, 542 Sac. street
Lochinvar Mining Co., Gopher Dist, Calaveras county, A Marcus, 519 Montgomery streat Lebanon copper, Garden Bar Dist, Placer county, J H Culver, 43 L street, Sacramento Lilly of the West, G \& S, Esmeralda, R Robinson, 636 Sacramento St.
Lightner, gold and silver, C B Hart, 15 Metropolitan Block.
Lady Adams, gold and silver, Reese River, R T Polk, 56 Metropolitan Block.
Lady Elizibeth, gold and silver, Silver moantain, J A Woodson, Barron's b'g. Merchant St. La Naud, gold and silver, San Francisco District, S W Corny, 410 Montgomery street.
Lady of the Lake G. \& S. Mining Co., San Francisco Dis. Wm Hollis 410 Montgomery St. Lady of the Lake G. \& S. Mining Co., San Francisco Dis. Wm Hollis 410 Montgomery
La Gloria, gold, silver and copper, Ed Chevassus, 617 Montgomery street.
La Mina de la D Prov, gold and silver.
Lady Washingtnn, silver, Virginia, N Shiverick, cor Montgomery and Clay.
Lady Franklin, silver, Virginia, N Shiverick, cor Montgomery and Clay.
Lone Star, silver, Esmeralda District, A Hanke, Aurora.
La Mariposa de G'a, gold, silver and copper.
La Lue Mining Co.
Lady Ann, gold and silver.
Lady Adams, silver.

Lafayette. gold and silver, Gold Hill District, Wm E Moody, 706 Mootgomery street. Lucerne Miniag Co. Gold Mill District, J S Passon, City hall. Lytton Mining Co. Genoa District.
Lady Bryan, gold and silver, Flowery District, John T Bailey, metropolitan bloc k Latiobe 'Junnel and Mining Co. Virginia District, R N Yan Brunt, 706 Montgomery st. Live Iankee, gold and silver, Esmeralda District, J A Moultrie, Aurora.
La Plata Mining Co. Esmeralda District, II s Sanders, Aurora.
Livingston, gold and silver, Esmeralda District, Jus Neary, 326 Clay street.
La Amistad, gold and silver, Santiagn, I. C., A. de Senaillac, cor Montgonery \& Jackson Los Cruzecitas Mining Co. Sonora, Mexico, C J Brenham, cor Jackson and Front streets. Lily of the West Mining Co. Esmeralda District, T L Bibbins, 305 Montgomery street. Lanel Hill Mining Co. Tuolumne Co. Jno B Russell, 410 Montgomery street.
L ly Dale, gold and silver, Silver Hill, J R Beard, 4 Armory Hall.
Los Angeles Con. gold and silver, Soledad District, Alfred Dennoe, 104 California street. Uuyd, gold and silver, Eameralda District, Isaac Tabor, 7 Armory Hall.
Lexinyton Tunnel Co. Star District, Chas E Judd, moatgomery strett.
Loyal, gold and silver, Esmeralda District, W F Hitchcock, 7 Mead House. Cowman, gild and silver, Virginia Distriet, Wm Knight, 414 Front street.
Lady Franklia, copper, Tuo'umne Co. G J Turner, 606 Montgomery street.
Cive Yankee, gold and ailver, Blate Range District, W W Lawton, 400 Montgomery street Lady Washington, gold and silver, Slate Range D, W W Lawton, 400 Montgomery street La Pla'a Mining Co.
Cady Tucker, gold and silver.
La Blanch, gold and silver.
Cuna, gold and silver, Esmeralds District, T Brownjohn, 621 Clay street.
Lafayette Mining Cu. James Gallagher, 706 Merchant street,
Coyal, gold and silver, Humboldt Co. F Vassault, corner Mon'gomery and Merchant. fander Co. gold and silver, Reese River District, A S Gould, 528 Clay street. Livingston, gold and silver.
Jonisville, gold and silver, Humboldt District, H C Kibbe, 542 Sacramento street. -ake Mining Co.
ford Byron, gold and silver, Esmeralds. District, H B Congdon, 621 Montgomery atreet. os Posos, gold and silver, La Paz District, T Brownjohn, 621 Clay street. afayette, gold and silver.
ouisa, gold aud silver, Silver City, J F Pope, 115 California street.
axington Mining Co.
s Belle France, gold and silver.
Womia, gold and silver, Prince Royal District, W Sparrow, 543 Clay sireet.
a Palma, silver, Sau Anthnio, L. C., J W Gould, 406 montgomery street.
alu, copper and silver, Weaver District, G J Turner, 606 Montgomery street.
ong Tom, gold and silver.
ake Superior, copper, Santa Clara
wne Star, gold and silver, Silver mountain
Lucky Star, silver, Silver Mountain
unar Consolidation, g and s, Esmeralda
(emnox, gand s, Slog Gulch, El Dorado co.
uive Oak, copper, Gopher, Calaveras Co.J H Gager, Merchant street. lancaster Mill and Mining Co. Humboldt Co. N. T., O Wetzler, 320 Montgomery street. a Blanca Mining Co. Sonora, Mexico, Chas Frieberg, 408 Clay street.

## one Star Mining Co. Reese River, A L Whitney, 602 Washington street.

- Esperanza, Arizona, C A. Eastman, 726 Montgomery street.
-a Providencia Silver Mining Co. Copalo, Sinaloa, Frank W Gross, 436 Jackson street. ta Mina del Norte Silver Mining Co. San Antonio, L. C., Henry Van Pelt, 436 Jackson. /3 Mina Ophir Silver Mining Co. San Antonio, L. C. Henry Van Pelt, 436 Jackson street fizzie Leighton, Consolidation; Esmeralda District, J R Beard; 4 Armory Gall. lady Ellen, g \& 8 , Silver City District, L D Ingold by, 80 Merchant street. مngley, gold and silver, San Francisco district, A. 'T., S H Corey, 410 Montgomery street. uncook Mill and Mining Co. Storey co.
ogan, silver.
a Sinaloa, silver, Sinaloa, Mexico
eo, gold and silver, Gold Hill
Iinnesota G \& S Mining Co. No 1, Gold Hill Dis., Munro Thompson, Virginia City. Iount Carmel, gold and silver, Argentine District, J H Purkitt, 40 Metropolitan Block. Lona, gold and silver, Silver City District, J H Purkitt, 40 Metropolitan Block. 1t. Vernon, g. s. \& C. M. Oo. Murphy's, Calap. Co. Montgomery Maze, 9 \& 11 Gov't House racdonald, G., S., and C. M. Co., Contra Costa, Mohtgornery Maze, 9 \& 11 Gov'mt House Iount Etna, silver and copper, Arizona Dis., O W Hayden, Montgomery St.
Iountain Queen, gold and silver, Reese River, John Gorman, 423 Battery street Ilandot, copper, H L Henschet 508 Battery St.
Lonitor, gold and silver, Reese River Dist, 228 Front street
Kaximilian, copper, Weaver District, Colorado River, A Marcus, 519 Montgomery street fammoth, g and s, Humboldt Dist., N T, H C Kibbe, 542 Sac. street Yount Carmel, gold and silver, J H Purkitt, Lyceum Building.
Tountain View, gold and silver, Calaveras county, C L Taylor 22 Montgomery St.
Iorning Star, gold and silver, Great Mogul Dis., C M Couro 717 Battery St.
filwakie, gold and silver, Slate Range, James Hitchings, 13 Mead House.
Iadraza, gold and silver, A Martinon, 811 Montgomery St.
IcClelland, gold and silver, Olando Loucks, 11 Clay St.
finervia and Gittels Con., Hugo Dreschfield, Naglees Broadway.
Ionitor, copper, C. Stevens, 505 Montgomery St.
lagdalena, gold and silver, Edwin Harris.
Ionte Albano G. \& S. Mining Co., Esmeralda Dis., David Wilder, 522 Montgomery St. fartinez, gold and silver, Reese River Dis., John W Gould, 406 Montgomery St. lount Vernon, gold silver \& copper, Clayton district, Montgomery Maze, Government house It. Davidson, gold and silver, Virginia district, F A Fabens, 47 Montgomery block. feredith, gold and silver, Virginia district, E B Holmes, 712 Montgomery stre et. fayflower, gold and silver, E-meralda district, W L Dancan, Pioneer building. lormon, silver.
[ina Prieta, silver, Sonora, Mexico, J P Nourse, Lucas \& Turner's buildiag. Lanzenillo, silver, Sinaloa, Mexico, - Eddy, 616 Merchant street.
[oss, gold and silver, Virvinia district, R C Page, 428 Montgomery street. lontezuma Tunuel and Mining Co. Esmeralda district, Aurora.
[t. Braly Summit, gold and silver, Esmeralda district, P B Oppenheim, Aurora. [onroe, gold and silver, Grass Valley.
lonarch, gold and silver, Virginia district.
ladison, gold and silver, Virginia district, P B Cornwall, 608 Merchant street. onterey, gold and silver, Devil's Gate district.
elones and Stanislaus, gold, silver and copper, Calaveras, Geo. Congdon, 629 Commercial athews gold and silver, Esmeralda District, E W orth, 547 Washington street. erchant and Miners, gold and silver, Nevada Territory, M Lichenstein, Virginia City. usidora, s.lver, Sunora, Maxico, F H Waterman, 618 Marchant street.

Mohave, gold and silver, Lower California, G S Turner, 606 Montgomery street
Mountaiu View, gold aud silver' Slate Range district. W H Clark, 224 Montgomery street Morrow East, gold and silver, Slate Lange, district, W H Clark, 224 Montgomery street. Milwaukie, gold and silver, Slate Range district, W H Clark, 224 Montgomery street. Montrose, gold and silver, Esmeralda district,
Mcunt Hope, silver, Virginis district, Thomas Brownjohn, 621 Clay street,
Mono Tuanol and Miniag C.mpany, Esmeralda District, L D Ingoldsby, 80 Merchant strt Manhattan gold and silver, Humholdt district, J H Gager, Montgomery Block. Maylower, gold and silver, Star District, J A Drinkhouse, 228 Froat street.
Mason, gold and silver, Fameralda district, J A Drinkhouse, 228 Front strect. Mammnth Tunnel and Mining Company, Esmeralda district J A Drinkhouse, 228 Front st Marmion, copper, gold \& silver, Mariposa district, J T Hoyt, 415 Montgonery atreet. Madisou, gold and silver, Slato Range district, G J Turner, 606 Montgomery street. Madison, gold and silver, Slate Range district, G J Turner, 606 Montgomery atrezt. Miller, gold and silver, Esmeralda district, Isaac Tabor, 7 Armory Hall.
Madison, gold and silver, Silver Mountain district.
Montezuma, gold and silver, Reese River district.
Mammoth No. 1, gold and silver, Esmeralda district, J R Beard, 4 Armory Hall. Magna Charta, gold and silver, Humboldt, C E Judd, 523 Montgomery Stj Monitor, gold and silver, Slate Range district, John Crowley, 428 Montgomery street. Mammoth, gold and silver, William E. Moody, 706 Montgomery street.
Monte Cristo, silver, Virginia district, E B Holnes, 712 Montgomery street. Minehaha Mining Company.
Moutreal T'unnel and Mining Co., Esmeralda district, J H Blood, 7 Montgomery Block. Moulder, gold and silver,
Minoda, gold and silver, Esmeralda district, T Brownjulm, 621 Clay street.
Manhattan Mining Co., Edward Franklin, corner of Montgnmery and California streets. Monaduock, gold and ailver, Sugar Pine district, A S Gould, 528 Clay street.
Moonlight, gold and silver.
Montague, gold and silver.
Mallard (Jonsolidated Mining Company.
Minnesota Consolidated Mining Cimpany.
Maria, silver.
Minerva, gold and silver, Gild Hill district, L D Ingoldsby, cor. Merchant and Montg'y sts Mount Etne, silver and copper.
Muy Rico, silver and copper, Weaver District, Arizona, N B Mulville, 606, montgomery st. Mount Vernon, gold and silver, Esmeralda, R Clark, metropolitan Block.
Magnolia, gold and silver, Prince Royal district, Hamboldt, Chas E Judd, 523 montg'ry st Marion, gold and silver.
Mountain Tunuel.
Mammoth, silver, Humboldt district, H C Kibbe, 542 Saicramento street.
Morning Star, silver, Great Mogul District, C M Conro, 623 Merchant atreet.
Malta, silver, Gold Hill district, A L Chamberlain, 413 Mon.gomery street.
Merchant, silver, Esmeralda district, J F Sterling, 33 Montgomery Black.
Manttol, copper.
Montgomery, gold and silver, Kern River district, G. J. Turner, 606 Montgomery street. Marble Valley, gold and silver, Ohio district, EI Dorado Co., D F Verdenal, 6 Ouurt Block Miunesota, gold and silver.
Mary L. Gardiner, Esmeralda.
Morning Star, gold and silver, Virginia City, N. T., Wm. A M Van Bokelen, Va. City. Montezama, gold and silver, El Dorado Canon.
Meredith, gold and Silver.
Mariana, gold and silver.
Montgomery Mining Co., g. and s.. Monitor dis., Amador, T J Owens, 1 Amory Hall. Mechanics', gold and silver, A. B Winegar, 322 Front street.
Madrago, gold and silver.
Monte Christo, gold and silver, Palmyra district, N. T., M W Weill, 630 Sacramento street Monte Christo, silver, Kern River districtG J Turner, 506 Montgomery street.
Mountain, gold and silver, W E Moody, 706 Montgomery street.
Miller Gold and Silver Mining Co., Smoky Valley, R. R., F W Gross, 436 Jackson street. Manaolana, gold and silver.
Mount Washington, go'd and silver.
Metropolitan, copper, Calaveras County, P B Cornwall, 608 Merchant street. Monte Lenne, G \& S, P N Edwards, Barron's Building.
Mina Prieta, copper.
Murphy's Gulch Mining County, Amador County, C O Bowman, 726 Montgomery street. Madison, gold and silver.
Mathewson, gold and silver.
Mina Rica de las Flores Mining Company. A DeTavel, S. W. cor. ont'y \& Jakson Sts. Moran, gold and silver..
Morgan, gold and silver.
Margarita, kilver and copper, Soledad district, L Franconi, Lucas \& Turner's Building. Madison, gold and silver, Virginia, P B Cornwall, 608 Merchant streut.
Mc Donald, gold, silver and copper.
Mount Hope, No. 2, gold and silver.
Mammoth Consolidated, Excelsior district, M G Elmore, 828 Montgomery street. Mountaineer, copper.
Mount Stanislaus, gold and silver,
Mohawl, gold and silver.
Monitor, gold and silver, El Dorado Canon.
McMahon, gold and silver, Devil's Gate district, A Noel, 607 Washington street. McClellan, gold, Virginia district, Jabish Clement, 48 Metropolitan block. Missouri, gold and silver, Reese River district, M L McDonald, 34 Metropolitan block. Mina, gold and silver, Esmeralda district, John Crowley, 428 Montgomery street. Mount Zion silver and copper, R B Blanding, corner California and Montgomery streets. Minturn \& Garland, gold and silver, Virginia district, T Brownjohn, 621 Clay street. Mount Washington, gold and silver, Virginia district, Henry 'Toomey, 402 Montgomery St. Midnight, gold and silver, Esmeralda district, William V. Garvey, 619 Montgomery street. Metropolitan, gold and silver, Silver Mountain District. TJ Owens, 1 Amory Fall. Mammoth Ledge, copper, Del Norte county, George F. Sharpe, U. S. Court building. Moselle Mining Compauy, Esmeralda district, W W Lawton, 400 Montgomery street. Mississippi, Virginia district, $G$ H Bigelow, over Parrott \& Co.
Manzanilla, Sinaloa, Mexico, Thomas Brownjohn, 621 Clay street.
Mnsquito Quartz Mining Company, Edward Fennard, 433 Montgomery street
Mauchester G. \& S. M. Oompany, Monitor dis. Amador, Hugo Dreschfield, 24 Naglee's bd. Marronena, silver, Lower California, Wm Faulkner, 411 Clay street.
Mobawk, g\&s, Virginia District, H S Dalliba, 604 Montgomery street.
Mountain Glen, gold and silver, Big Creek d
Mountain clen, gold and siver, Big Cree
Mineral Mountain, g and s , Calaveras co.
Martinez, gold and silver, Reese River
Monitor, gold and silver, El Dorado Canon

Norman G. \& S. Mining Co., Star Dis., Humboldt, John M Burnett, 536 Washington St. Nacosari, gold silver and copper, Sonora, Mexico, T B Bigelow, Cor. Jackson \& Front. New York Quartz Mining Co., S Pinkham 222 Sacramento St. New Esmeralda, gold and silrer, T B Openheim, Aurora.
Noonday, gold and silver, J W Crosley, Government House.
Nerada, gold and silver, Reese River Mining District, 228 Front street
Ne Plus Ultra, consol' Weaver district, J H Harris, cor Clay \& Sansome Sts.
Newsome, gold and silver, Silver City District, J. H. Purkitt, 40 Metropolitan Block.
Noonday, g. s, \& c., Contra Costa. J W Crosley, 9 \& 10 Government House.
Ninian, gold and silver, Blue Sulphur Springs, Virginia, R N Van Bront, 706 Montg'y st. Noab Vebster M. Co., Humboldt, R N Van Brunt, 706 Montgomery street.
Ner York, gold and silver, Gold Hill, N. T., H C Kibbe, 542 Sac; street
North Potosi, silver, Virgivia dis., E V Joice, cor. Battery and Washington streets.
Norman, silver, Flowery district, John F Bailey, 40 Montgomery Block.
Napa Quartz Mining Company, Esmeralda distruct, -_, Napa City.
Norton, gold and silver, Virginia district, R N Van Brunt, 706 Montgomery street. Nerada Tunnel \& Mining Co., Esmeralda district, -- -, Aurora.
New EI Dorado, gold and silver, Virginia district, -, Sacramento.
New York, gold and silver, Slate Range district, A H Clarke, 522 Montgomery street. Nevada Mining Co., Esmeralda district, P B Cornwall, 608 Merehant streets. Neversink, gold and silver, Esmeralda district, D Clark, Court block.
North Star, gold and silver, Humboldt district, J H Gager, Merchant St., Montgomery blk Nightingill, gold and silver, Cinnabar district, A L Chamberlin, 413 Montgomery street. Numa, gold and silver, Mono county, Wm. Fishel, cor. Battery and Sacramento streets.
North W Francis, gold and silver, slate Range district.
Nortb Star, gold and silver, Reese River district, J A Drinkhouse, 228 Front street. New World, gold and silver, Wm H Watson, 607 Clay street.
New World gold and silver, N Webster, 608 Montgomery street.
N Y Point $\mathcal{H}$ and S M Co, Gold Hill district, N K Lamson, Firginia city.
Norman Company, Virginia district, J H Brewer, 40 Montgomery street.
National. gold and silver, Esmeralda district, J F Sterling, 33 Montgomery street.
Nevada Coal Co, Boiling Springs district, Hamboldt, C Gardner, 3 Barron's Building. North, gold and silver, Star district, James Herrick, 606 Montgomery street.
New Era, copper, Salt Spring district, E Barry, 636 Sacramento street.
Noonday, gold and silver, Reese River district, L D Ingoldsby, 80 Merchant street.
Niagara, gold and silver, American District, G J Turner, 606 Montgomery street.
Nashville, gold and silver, Oro Fino, Humloldt Coo., N. T., E C Lovell, 436 Jackson street New Eden, gold and silver, Devil's Gate district, A S Goald, 528 Clay street.
Nevada, gold and silver, Nevada district, Cal. S Pinkham, Front street.
Noble, copper, Calaveras County, E A Breed, Lucas and Turner's Bailding.
Nerada, copper, Nevada Co, G V, John Armstrong, 610 Merchant street.
Napoleon, copper, Calaveras Co, R C Alden, 420 Montgomery street.
New Year Diggia, gold and silver, Aug. Kumast, 410 Montromery St.
Niagara, gold and silver, Colorado distriet, M G Elmore, 528 Montgomery street.
Nevada Gold Quartz Mining Co. Deer Creek, Nevada Co. G W Kinzer, 56 Mont. Block.
Noah Webster Mining Co. Humboldt Co.
North Star Consclidation, $g$ and 8 , Coso dis
Ne Plus Ultra, gold and silver, Clayton dis
Nuestro Senora del Refuglo, S, Sonora, Mez
Niagara Con. gold and s, El Dorado Canon
Natividad, gold and silver, Reese River
Ne Plas Ultra Con. Mining Co. Arizona
Norman, gold and silver, Raymond Dis. T J Owens, 1 Brmory Hall.
Occidental Gold \& Silver Mining Coo, Silver mount', Mono Co., E C Lovell, 436 Jackson St. Ottawa, gold and silver, Devil's Gate District, Isaac Tabor, Armory Hall.
Olympic, g and s, Reese River, E C Palmer, Government House
Ophir of the Colorado, No 1. G \& S Mining Co., Colorado, Arizona, R Clarke, Met. Block. Ossipee, gold and slver, $\mathbf{R} 0$ Sturtevant, 612 Montgomery St.
Occidental, copper, Soledad Dis. E Barry, 636 Sacramento.
Ophir Mountain, g and s, Slate Range Dist, J B Russell, 410 Montgomery street
Orleans Quicksilver; Lake county, H C Kibbe 542 Sac. street
O'Maha, copper, Canupo Seco, H C Kible, 542 Sac. street
Ophir, silver, Virginia district, Thos J Lamb, Room 1 Express building.
Osceola, gold and silver, Silver City, C W Evans, San Antonio, Alameda.
Occidental Mining Co, Emma Frances district, J H Gager, Montgomery street.
Orio, Mining Co, Santa Cruz Co, Geo H Kohler, 526 Montgomery street.
Oriental, gold and silver, Virginia City, John LL Leconey, Virginia City.
Oneida, gold and silver, Mono county, E Daziels, Express Building.
Oregon, gold and silver, Reese River district, 228 Front street.
O'Donohue, gold and silver, Esmeralda district, T Fliteroft, 617 Clay stseet.
Offield Ledge Mining Co, Sacramento Co.
Oriental, gold and silver, Monitor district, T J Owens, 1 Armory Hall.
Owens River, gold and silver, Ira Manson, 317 Montgomery street.
Omega Mining Co, Gold Hill district, L D Ingold by, 80 Merchant street.
Oriole, gold and silver, Esmeralda district, Thos Letson.
Occidental, copper, Soledad district, E Barry, 636 Sacramento street.
Oro Fino, gold and silver, Reese River district, M L McDonald, 34 Metropolitan block.
Ophir Monntain, Slate Range district, J B Russell, 410 Montgomery street.
Overland, silver, Reese River district, A S Gould, 528 Clay street.
Orleans Quicksilver Mining Co., Lake Co, H C Kibbe, 541 Sacramento street.
Omaha, copper, Campo Seco, H C Kibbe, 542 Sacramento street.
Olive City, copper, La Paz, Thos Brownjohn, 621 Clay street.
Owens' River, gold and silver, Inyo district, Tulare Co, $E$ C McComb, 621 Clay street.
Ophir Silver Miving Co. Slate Range district, John B Russell, 410 Montgomery street.
Original Gould \& Curry, g and s, Silver Mtn
Osceola Hill, silver, Summit district
Ossian Copper mining co, Calaveras co
Ophir and Anburn Con.g and s, Placer co
Old Saxon mining co, Virginia dis
Oriental and Occidental Consolidated, $g$ \& s
Princeville, gold and silver, Esmeralda, J P Cooledge, Aurora.
Pacific Quicksilver, Lake county, H C Kibbe, 542 Sac. street
Princess, g and s, Colorado Dist, New Mexico, R Clark, 422 Montgomery street
Pine Hill, copper, Bear River Dist, Nevada county, J H Culver, 43 L street, Sacramento
Polar Star, gold and silver, Jas M Swift 617 Clay St.
Palmetto, gold and silver, W F Hughes, 305 Montgomery street
Penole, gold, silver and copper, Geo. A Ball, 517 Clay street
Pennsylvania, W H Martin, 810 Montgomery street
Pacific Land Co., Oregon, Joseph C Ford, 607 Washington street.
Patten, gold and silver, Humboldt, J F Miller, $60{ }^{7}$ Washington street.

Poindexter G. \& S. Mining Co., Colorado District, Wm Hollis, 410 Montgomery street Potsham Consolidated M. Co., Humboldt, R N Van Brunt, 706 Montgomery street. Potosi, gold and silver, Virginia district, J F Lightner, Metropolitan block.
Pride of the Antelope, gold and silver, Esmeralda district, _- Auror
Porter, gold and silver, Lamb Ledge R C Page, 420 Montgomery street.
Porter, gold and silver, Lamb Ledge R C Page, 420 Montgomery street.
Philadelphia, gold and silver, Slate Range, district A H Clark, 522 Montgomery street. Pena, silver, San Antonio, L C. Wm. Faulkner, 411 Olay street.
Peytona, gold and silver, Virginia dis rict, C Stevens, 6 Parrot's building. Polar Star, gold and silver, Emeralda district, M B Ashim, Sacramento. Peerless, gold and silver, Buena Vista district, A L Ohamberlin, 413 Montgomery St. Pioneer, silver, Washoe district, Wm A M Van Bokolen, Virginia City.
Pacific, gold and silver, Mono Co., H R Peed, 321 Washington street.
Portland, silver, Aurora, Geo Bower. Montgomery street.
Pond, gold and silver, Esmeralda district, P B Conwall, 608 Merchant street.
Pride of Esmeralda, gold and silver, Esmeralda district, J F Bailer, 605 Sacramento St. Paul Thompson, gold and silver, Fsmeralda district, Geurge Bower, Moutgomery street. Piodeer Cuso, Coso district, E B Holmer, 712 Montgomery street.

## Pauline, gold and silver, Esmeralda district.

Pride of Wide West, Esmeralda district, John Crowley, 428 Montgomery street.
Prospero, gold and silver, Hamboldt district, V B Post, Lucas \& Turner's building.
Pride of Ophir, Esmeralda district, Thos Brownjohn, 621 Olay street.
Pepita, silver, Der l's Gate district, Gumer Erans, 338 Montgomery street.
Pine Nut Consolidation, silver, Reese River distric
Pine Nut Consolidation, silver, Reese River district, A S Gould, 528 . Clay street.
Pilot Hill Consolidation Mining Co. Gre enwood district, D F Verdenal, 636 Clay street. Plutuna, gold and silver, Devil's Gate district, JL Pool, 540 Washington street. Prince Imperial, gold and silver, Calaveras Co. J Woodthorpe, 326 Clay street. Princess, gold and silver, Colorado district, Ne w Mexico, $\mathbf{R}$ Clark. Pride of the West Mining Co. Silver City, L D Iugoldshy, 80 Merchant street. Pacific Star Con, gold and silver, Star district, J L Pool, 540 Washington street. Piney Creek, gold, silver and copper, Mariposa Co. Jos. Dardano, Lucas \& Turner's Bdg. Palmyra Consolidation, gold and silver, Palmyra district, C W Curtis, 606 Montgomery $\mathrm{ta}^{\text {. }}$ Pensacola, gold and silver, Esmeralda district, J H Blood, 7 Montgomery Block. Poor Man's Mining Oo. Prince Royal district, W Sparrov, 543 Clay street. Puritan, gold and silver, H B Oongdon, 621 Washington street.
Pride of Washoe, gold and silver, Washoe district, Wm E Mood
Pride of Washoe, gold and silver, Washoe district, Wm E Moody, 706 Montgomery street. Providence, gold and silver, Nevada Co.J M Buffington, 12 Government House. Pioneer Mill and Mining Co. R ese River district, L D Ingoldsby, 80 M erchant street. Parker Tunnel, gold, Esmeralda district, A S Gonld, 528 Clay street.
Princess Royal, gold and silver, '1 © McCallan, 617 Clay street.
Peninsular Mining Co. Lower California, D A Jennings, 606 Froat street.
Pacific Quicksilver Mining Co. Lake Co. H C Kibbe, 543 Sacramento strett.
Plymouth Quar z Mining Co. Kelsey district, L D Ingoldsby, 80 Merchant street.
Pacific Copper mining co, Del Norte co
Penusylvania mining co, Bear Rıver dis
Prima Donna, $g$ and $s$, Amador co
Potsdam Con. mining co, St Marys d, N T
Pioneer Mill and mining co, Nevada T€
Panama Con. g and s, Smoky Valley dis
Pyroide Union, gold, Contra Costa co
Prima Donna, g and s, Devil's Gate
Perseverance, copper, El Dorado co
Quincy Mining Co. Plumas Co.-_Quincy, Plumas Co.
Queen City, gold and silver, Ell Dorado Canon.
Queen of the West, gold and silver, E E Phillips, Gold Hill.
Quaker City Little Giant, gold, silver and copper, Clayton district, W L Kirby, 611 Clay st. Quartz Mountain, gold and silver, El Dorado Co. F W Gross, 476 Jackson street. Queen of the West, Reese River district, 'T Brownjohn, 621 Clay street.
Quartz Mountain, g and s, EI Dorado co
Queen of Sheba, g and s , Washoe Valley
Romelia mining Co., Contra Costa Co., J W Crosley, 9 \& 10 Government House. Red Jacket, mining Co., Contra Costa county, J W Crosley, 9 \& 10 Government House. Red Rock, G \& S, A C Tietman, 54 Clay St. Royal Wagle and Cliff, gand a, J Krieg, 755 Clay street
Rosario, g and s, Sinaloa, Mexico
Rosario, gold and silver, Palmyra Dist, Wm Willis, 712 Montgomery street
Rose Ellen, copper, Garden Bar Dist. Placer county, J H Culver, 43 L street, Sac:amente Rock River, gold, Butte county Cal., H C Kibbe, 542 Sacramento street Rose Spring, $G$, S. \& C., Eldorado, G J Turner, 606 Montgomery Street. Rogers, silver, Flowery district, John F Pope, 113 Calhfornia street. Real del Monte Con. gold and silver, Esmeralda district, S Pattee, 522 Montgomery streel Reese River, gold and silver, Reese River district, R N Van Brunt, 706 Montgomery st: Red, White and Blue, gold and silver, Esmeralda distriet, T L Bibbins, 305 Montgomery. Rochester, gold and silver, Slate Range district, A H Clark, 522 Montgomery street. Ruth Windsor, gold and silver, Esmeralda district, T' L Bibbins, 305 Montgomery street. Rhodes Digoings Quartz Mining Co. Esmeralda district, G Touchard, 414 Montgomery st Recorder, gold and silver, Storey Co. J S Daries, 18 Montgomery block.
Ruby, gold and silver, Star district, W H Martin, 617 Clay street.
Realito, gold and silver, Sonora, Mexico, W C Budd, 412 Sansome street.
Rip Van Winkle, gold and silver, Esmeralda district, M G EImore, 528 Montgomery streel
Rosebad, gold and silver, Esmeralda district, J M Burnett, 605 Montgomery street. Rosebud, gold and silver, Esmeralda district, J M Burnett, 605 Montgomery street. Rochester, gold and silver, Esmeralda district, Isaac Tabor, 7 Armory Hall.
Roanoak, gold and silver, Esmeralla district, Jas Herrick, 605 Montgomery street. Railroad, silver, Reese River district, A S Gould, 528 Clay street.
Rough and Ready, gold and copper, Nevada county, C W M Smith, 57 Gor. Building
Rife, gold and silver.
Relief, gold, silver and copper.
Rose Spring Water and Mining Co. Coso district, W W Lawton, 400 Montgomery street. Ragsdale, gold and silver.
Ragas, gold and silver.
Russel, gold and silver.
Red Rocis, gold and silver.
Rich Ball, gold and silver.
Ruth Windsor T'unnel Co. Esmeralda district, T L Bibbins, 305 Montgomery sireet.
Rhodes North Ex. Mining Co. Folsom distriet, L Maubec, 716 Montgomery street.
Rambler Mining Co. Slate Range district, Wm V Garvey, 619 Merchant street, Rose Quartz Minigg Co. Eagle and Washoe districts, Jas Herrick, 606 Moutgomery street. Rising Sun, copper, Clayton district, W S Kirby, 611 Clay street.
Rock River, gold, H C Kibbe, 542 Sacramento street.
Red Butte Mining Co. Esmeralda district, W W Lawton, 400 Montgomery street.
:ogal Eagle and (liff, gold and filrer, J Krieg, 755. Chay street.
As anna, gold, Arizoua Territury, Jules P Cavillier, 619 Washington Street.
huse Spring, Hump of the Iip, I'ilut $\mathrm{k}^{\mathbf{L}}$ nob distriet, G J Turner, 606 Montgomery street. fialto Con, $g$ and s, Silver somutain dis
fockwell, $g$ and s, Raven-wood dis
insario and C'armen my co, Sinalua, Kex
icharil Hall, g and s, Lander co
wtbschild, g and s, Sierra dis
fising Sun. $g$ and s, Reese River
iverside Quartz mining co, Tuolumne co
an Galriel, gold, silver and copper, Carmen Island, L. C., J W Gould, 406 Montgomery S arah Frances, g and 8, Wester Dis, FV Scudder, 6 Barron's Buikling.
an Froucisco S. M. C'o., Lower Califurnia, H C' Kiblee, 542 Sacramento street
anta Cruz, silver, Lower Cialifornia, Mexico, A Marcus, 10 Montgomery street
outhern Rights, 4 and $s$, Reese River Mining Dist, 22 y (Frunt street
chiter g and s. frold Mill, A Niel, 607 Wishington street
alvador, gold and silver, C II Watson, 528 Montgomery street
acramento, $g$ and B. S W Moore, $4 U 8$ C'aliformiu street
albeck, copper, E: F Bent, Selleck Gallery's
tarlight, gold and silver, Mumboldt, N T, J II Gager, Merchant St, Montg. Block lifver Moun, gold and silver, E Jaudin, 523 Front street
dato Range, Water Co, A H Clark, 522 Montgomery street
t. Charles and St Juseph, Momboldt, Chas, Lumbord, 528 Montgomery street
pytoyme, G \& S, Esmeralda, Il Robinson, 636 Sacramento St.
neca, G \& S, Estmeralda, R Robingson, 626 Sacramento St.
an Rafatl, gold and silver, Marian county, F II Rogers, 607 Washington street.

- Charles. gold and silver, Recse River, F H Rogers, 607 Washington street.
inta Clara Tunnel and Mining Co., Esimeralda Dis., J H Smyth, 49 Metropolitan Block. fomer, gold and silver, Kern River, Cove district, J F Miller, 327 Montgomery street.
herto, copper, Carmen Island, Iseac Tabor, 7 Armory Hall.
$t$ Charles, gold and silver, Reese River, Lander County, F H Rogers, 607 Washington str. t. Cluir, gold and silver, R T Pulk, 56 Metropolitan Block.
bathern Belle, gold and silver, Reese River, R' ' Polk, 56 Metropolitan Block.
John, Conl co, Cal. and Nevada, H S Dalliba, 604 Montgomery st.
r Eilmond, guld and silver, Silver City District, J H Purkitt, 40 Metropolitan Block. nay, gold and silver, Silver City District, J H Purkitt, 40 Metropolitan block. tting Sun, g. s. \& c., Contra Costa co., J W Crosley, 9 \& 10 Government Mouse. pphie, guld and silver, Tuolumne couny, J C Ford, 607 Washington street. a Jose de Tantanas Minigg Co. Durango, Mexico.
mmmit Pass Mining Co. Tuolumne Co. 'I' B Luulum, 528 Clay St.
an Francisco, gold aud silver, Slate Range district, G J Turner, 606 Montgomery street. neba, gold and silver, Star district, R C Harrison, 6 Naglee's Building.
an Francisco, gold and silver, Culorado dia, II C Kibbe, 542 Sac. street, cor. Mont'y path Sonora Mining Co. Esmeralda district, J M Burnett, 605 Merchant street. in Carlos Exploring and Mining Co. Tulare Co. W W Lawton, 400 Montgomery street. Fhiller, gold and silver, Esmeralda district, T Brownjohn, 621 Clay street.
linas, gold and silver, Monterev, Geo E Whitney, 9 Montgomery Block.
hedad, silver, Soledad district, Geo $H$ Russell, 636 Sacramento street.
puth Potosi, gold and silver, Buena Vi-ta distict, J S Luty, 305 Montgomery street.
eott Exploring and Mining Co. Humboldt district, L Franconi, Lucas \& Turner's Bdg.
. Charles, gold and silver, Esmeralda district, T Brownjohn, 621 Clay street.
onewall Consolidation, gold and silver, Esmeralda district, 'I' Brownjohn, 621 Clay street am, gold and silver.
anbeam, Jst SW Extension, Esmeralda district, I Brownjohn, 621 Clay street.
nta Isabel, silver.
kiyou, gold and silver.Star Dic, C E Judd, 523 Mont'y St.
ell Exploring and Mining Co.J H Titcomb, 610 Montgomery St.
lrador, gold and silver.
4 Francisco, gold and silver, San Francisco district, M G Elmore, 528 Montgomery st.
hoky Valley, silver, Lander Co. A S Gould, 528 Clay street.
ring Valley, cnpper.
rer State Mining Co. Virginia district, J S Davies 18 Montgomery Block-
lazar, silver, La Paz, Arizona, C I Eaton, over Keith's drug store.
eet Vengeance, gold and silver, A Vavillier, 610 Front street.
ledad Pass, copper.J H Rutenburg, 442 Washington St.
a Francisco, silver, Potosi Ledge, N Shiverick, cor Montgomery and Clay.
ver Mount, copper, Esmeralda district, S Pattee, 522 Montgomery street. rondale, gold aud silver. Esmeralda Dis., R. Clark, metropolitao block.
uth Hawley Mining Co. Virginia district, J F Pope, 113 California street.
ella Mining Co. Virginia district, J S Davies, 18 Montgomery Block.
aron Mining Co. Virginia district, J S Davies, 18 Montgomery street.
lambo, copper, Tuolumne, L Franconi, Lucas \& Turaer's Building.
ginaw Quartz Mining Co.
Rafael, gold and silver. Marin county, F H Rogers. 607 Washington street.
pvenson-Kehoe Mining Co. Gold Hill, Wm Willis, 722 Montgomery street.
anislaus Uvion, gold and silver, H O Howard, 523 Montgomery street.
ottie, gold and silper.
tra Consolidation, gold and silver, M F Hitcheock, 305 Montgomery street.
m Moore, gold, silver and copper, Clayton district, A B Graves, 412 Clay St. ata Rosa Mining Co.W D Robertson, 619 Mont'y St.
ptoe, gold and silver.
rprise, gold and silver.
aora, gold and silver, Virginia dietrict, L D Ingoldsby, 80 Merchant street.
inta Rosa, gold and silver, E Polhemus, 413 California street.
mndinavian, g and s, Silver mountain
Heba Cent, $g$ and s, Humboldt co
inta Rita mining co, Sinaloa, Mexico
ar of the West, $g$ and $s$, Amador co
vage No. 2, g and s, Virginia dis
Inta Clara Tun and M co, Esmeralda
ver Prize, $g$ and $s$, Silver mountain dis
ver Creek, $g$ and s, Silver mountain dis
Valley Forge g and s, Lander co
Francisco bay co, San Francisco
Antonio Chr quito, silver, Chihuahua
Gabriel, gold and silver, La Paz dis
athern Light, $g$ and 8 , Reese Riqer
artan, $g$ and $s$, Humb ld co
Andrews, g and s , Lyon co
a Francisco mining co, Carmen Island
12eca mining co, Virginia dis

Scorpion, silver, Virginia district, W H Martiv, 617 Clay strcet.
Sierra Nevada, silver, Virgiuia district, J II Brewer, 40 Moutgamery block.
Silver City, gold and silver, Silver City, 0 Risdon, cor Battery and Bush.
Succor, gold and silver, Gold Hill district, R H Waller, 1 and 2 Mont gomery block. Shelton, silver, Argentine district, J S Davies, 18 Montgomery Block.
Sierra, silver, Genoa distriet, J F Pope, 113 California street.
Sierra Lumber and Mining Co. Genoa district.
St. Louis, gold and silver, Goid Hill district, J II Btewer, 40 Montgomery Block. Silver Mound, silver.
Silver City Quartz Mill Co. Silver City, E Bauer, 414 Washington street Scoria, Virginia district.
Swansea Mill and Mining Co. Silver City.
Sapplire Quartz Mill and Mring Co.
Santiago, gold and silver, Silver City, E A Breed; Lucas \& Turner's Building.
Santa Rosa, gold and sil rer, Virginia district, Nelson Hudson, Front street. Sacramento, gold and silver, Virginia district, S W Moore, 408 California street. Siam Wright, Esmeralda district. E Worth, 547 Washiugton street. Sierra Butte Quartz Mining Co. Sierra Co.
Sigel, gold and silver, Humbold distict, J H Gager, Merchant st., Montgomery Block. Savage Mining Co. Virginia district, G B McAneny, 712 Montgomery street. St. Gearge, gold and silver, Virginia district, II Bigelow, cor Mont. \& Sac. streets. Slate Range, gold and silver, Slate Range district, A H Clark, 522 Montgomery strect. South Utah, gold and silver, Esmeralda district, P B Cornwall, 608 Merchant street. Sol Lewis, gold and silver, Esmeralda district, John Crowley, 422 Montgomery street. San Francisco, gold and silver, Esmeralda district, J H Blood, 7 Montgomery Block. San Marcial, silver, Sonora, Mexico, R N Van Brunt, 706 Montgomery street. San Bernard, silver, Star district.
San Juse, silver, Lower Mexico.
Sacramento East, gold and silver, Slate Ravge district, W H Clark, 224 Montgomery st. Sonora, gold and eilver. Esmeralda district, iH D Bequette, Aurora.
Sam Patch, gold and silver, Esmeralda district, J H Blood, 7 Montgomery Block.
Silver Muand, gold and silver, Grass Tal., Nevada Co. John Armstrong, 610 Merchant St. Strawberry, gold and silver, Esmeralda dis rict, H D Bequette, Aurora.
Sutro, gold and silver, Virgin'a district, N W Winton, Virginia City.
Shoshone, silver, Lander Co. M J Newmark, 522 Montgomery street.
Sugar Pine, gold and silver, Tuolumne Co. S D Jones, Custom House.
Seneca, gold and silver, Esmeralda district, ' $\mathbf{L}$ L Bibbins, 305 Montgomery street.
Silver Age, gold and silver, Esmeralda district, T Brownjohn, 621 Clay street. Sotogome, gold and silver, Esmeralda district, T L Bibbins, 305 Montgomery street. St. Clair, gold and silver, Esmeralda district, E W orth, 547 Washington street.
Schmeltzer, silver, American district, M G Eluore, 528 Montgnmery street.
St. George, gold and silver, Humboldt district, A L Chamberlin, 413 Montgomery street. Silver Age, gold and silver, Virginia district, - Mygett, Virginia City. Saginaw Quartz Mining Co. Tulare Co. F W Gross, 436 Jackson street. Sailor, gold and silver, Blue Mountain district, H Dreschfeld, 24 Naglee's Building. Syren, gold and silver, Calaveras Co. Leon Maubec, 716 Montgomery street. Suburban, gold and silver, Mission Dolores, M Calkin, 326 Clay street. Seneca, gold and silver, Santa Oruz Co. M Calkin, 326 Clay street. Saratoga, gold and silver, Esmeralda district, T Brownjohn, 621 Clay street. Silver Light, gold and silver, Gold Hill district, F Vassault, 4 Barron's Building. South Esmeralda, gold and silver, Esmeralda district, Wm $V$ Garvey, 619 Merchant street. San Francisco, silver, Reese River district, A S Gould, 528 Clay street.
Silver Wedge, gold and silver, N Shiverick, cor Montgomery and Clay.
Silver Stor, gold and silver, Virginia district, W E Moody, 106 Montgomery street. San Antonio, silver, P Van Pelt, 310 Sansome street.
Soledad, copper, Soledad district, E Barry, 636 Sacramento street.
Silver Age, copper, Humboldt district, E Flanagan, 8 Naglee's Building.
San Lorenzo, gold and silver, Santa Cruz Co. M Calkin, 326 Clay street.
Star Light, gold and silver, Humboldt district, J H Gager, Merchant street.
Silver Butte Consolidated Silver Mining Co. Silver Butte dis. M $G$ Elmore, 528 Montgomery.
San Mateo Copper and Cannel Coal Mining Oo., San Mateo and Santa, Clara.
Soledad Hill, copper, Los Angelos county, Jule P Cavillier, 619 Washington street.
Sierra Valley, g and s, Plumes co
San Patricoo mining co, Carnen Island
San Fernando Qtz Mill \& M co. Slate Range
Sutter Creek, g and s, A mador co
St Charles, g and s , Reese River
Salamander, $g$ and s , Coso dis
Star of Hope $g$ and's, Silver mountain
Spring Lode, $g$ and s, Esmeralda
South Chihuahua, g and s, Esuneralda
South Sacramento, gold and sily, Cedar Hill
St Mary's, gold and silver
Star, gold and silver, Lyon county
San Francisco, gg and s, Calaveras co
Santa Craz Petroleum Oil M co
Spencer, $g$ and s, Humboldt co
San Francisco Tunnel \& Mining Company.
Sierra Nevada Gold Quartz Mining co.
Sacramento, gold and silver, Humboldt co.
Star of Empire, gold and silver, Marip'a co.
Thompsons, gold and silver, Simpson's Park district, R T Polk, 56 Metropolitan Block. Toronto, gold and silver, Argentine District, J H Purkitt, 40 Metropolitan Block. Tri Union, silver, Virginia district, N. T., N Shiverick, 605 Clay street.
Tecoripa Mining Company, T B Bigelow, corner Jackson and Front
Tranquillon, g , s and c, J F Lohse, 430 Jackson street
Tellurium, gold and silver, W H Martin, 617 Clay street
Tajo, g and s, A G Stiles, 212 California street
Tennessee, gold and silver, Esmeralda district, J H Blood, 7 Montgomery Block.
Tucker, gold and silver, Esmeralda district, P B Cornwall, 608 Merchant street
Triunfo, gold and silver, San Antonio, L C, H S Brooks, 536 Clay street
Tigre of Colorado, gold and silver; Duradgo, Mexico, E. W Newman, 737 Union street Techattacup, gold and silver, Colorado district, E B Holmes, 712 Montgomery street Third South Utah, gold and silver, Esmeralda district, Moses Frank, 609 Clay street Tri-Union, gold and silver, Flowery district, $\mathbf{N}$ Shiverick, cor Montgomery and Clay I'ucker Tunnel Co. Esmeralda district, P B Cornwall, 608 Merchant street Tucker Tumnel Co. Esmeralda district, P B Cornwail, 608 Merchan
Toquima, silver, Reese River district, A S Gould, 528 Clay street
Tulare Mining Co. Iugo Dist.inodney Clark, 422 Montgomery street
Telegraph, gold and silver, Excelsior district; Wm V Garvey, 619 Merchant street
Tamilpais, Marin Co. S B Rooney, Government House

Triton, gold and silver, Virginia district, W E Moody, 706 Montgomery street Tesora, gold aud silver, Lower California, $H$ E Kibbe, cor Sansome and California Table Mountain, copper, Calaveras Co. M G Elmore, 528 Montgomery street Texas, gold and silver, Cedar Hill district, J G Libby, Virginia City Tescalama Mining Co. Lower California, J H Blood, 7 Montgomery Block Telegraph, gold and silver, Silver mountain, T J Owens, 1 Armory Hall True Delta, copper, Del Norte Co. Joinn F Pope, 113 California street. Tilly Tunnel and Mining Cnmpany.
Thunderer Ledge, gold and silver.
Tram O'Shanter, gold and silver, Esmeralda.
Thompson, gold and silver, Silver mountain.
Teutonia, gold and silver, Gold Hill.
Tip Top, gold and silver, Silver Mount'. Dist.
Tonawanda, gold and silver, Colorado Dist.
Telegraph, gold and silver, Excelsior District.
Tecolota, silver, Durango, Mexico.
Tennessee, gold and silver, Echo District.
Twilight Tuanel Mining Co., Gold Hill.
Tallulah Mining Company, Humboldt co.
Utah, gold and silver, Flowery district, J H Gilchrist, Virginia City Utah Mining Co. Esweralda district,
Union Donsolidated, gold and silver, Russ district, C S Higgins, 410 Montgomery street Uuion Tunnel Co. Esmeralda district, A J Simmons, Aurora
United States, gold and silver, Virginia district, S B Rooney, 8 Government House
Union, silver, Nevada Territory
Utica, gold and silver, Calaveras Co.
Uncle Sam, gold and silver, Silver Mountain, T J Owens, 1 Armory Hall
Union No. 2, gold and silver, Reese River district, 228 Front street.
Union, gold and silver, Russ district, J B Russell, 410 Montgomery street
Utah Consolidated, gold and silver, Reese River district, T Brownjohn, 621 Clay street United Ledges, silver, Humboldt district, E Flanagan, 8 Naglee's Building.
United Ledges, gold and silver, Silver Hill district, E Flanagan, 8 Naglee's Building.
United States Mining Company, Virginia, S B Rooney, 11 Government House.
United, g , s and $\mathrm{c}, \mathrm{J}$ P Van Hagan, Government House
Umpire, gold and silver, Sierra Dist, Humboldt M M Barker, 406 Montgomery street United Cosmopolitan, gold and silver, French Corral, A Marcus, 519 Montgomery street Uncle Sam, Silver Mountain Dist, T J Owens, 1 Armory Hall
Victorina G \& S Mining Co., Esmeralda Dis., Theodore Wetzel, -street.
Valley, gold and silver, Buena Vista dist,, Humboldt, G Falkenstein, 426 Montgomery st. Valparaiso, g, C F Mebins, cor, Clay and Front streets
Vetu Granda, Arizona, W H Mills, 606 Montgomery St.
Victorina, g and s, Humboldt Fill, Esmeralda Dist, Theodore Wetzel, 627 Clay street Virginia Hill, gold and silver, Virginia district, H Butenoss, Virginia City.
Vibbard, gold and silver, Esmeralda district, Jas Neary, 320 Clay street.
Villarino Mining Co. Lower California, J D Creigh, cor Montgomery and California. Virginia Rogers Mining Co. Nevada Territory, E B Holmes, 712 Montgomery street. Vulcan, gold and silver, Coso district, J H Gager, Morchant st., Montgomery Block. Vesuvian, gold and silver, J P Nourse, Lacas \& Tarner's Building.

Veatch, silver, Simpson's Park, E B Holmes, 712 Montgomery street. Venus, gold and silver, Buena Vista district;'J L Pool, 540 W ashington street. Victor Hugo, gold and silyer, Humboldt district, E Flanagan, 8 Naglee's Building. Victoria, gold and silver, Esmeralda, district, 'T Brownjohn, 621 Clay street.
Wisconsin Gold Mining Co., Jabish Clement, Metropolitan Block.
Woolsey, gold and silver, Gold Hill, Edward C Lavell, 436 Jackson street.
Wide Awake, gold and silver,, Cinaabar dist;,Humboldt, G Falkenstein, 426 Montgom'y s Webster G \& S Mininy Co., Esmeralda, Wm T Atwood, 224 Montgomery street. Winona, g and s, M G Elmore, 528, Montgomery street
Webster, g and s, Humboldt Dist., N T, H C Kibbe, 542 Sac. street Washoe, gold and silver, Gold Hill district, D A Jennings, cor Jackson and Front. Washoe Manufacturing and Mining Co. - Marysville.
Wide West Mining Co. Esmeralda district, Coll Dean, 325 Montgomery street.
White \& Murphy, gold and silver, Virginia district, J P Nourse, Lucas \& Turner's Bdg. White Cloud, gold and silver, Virginia district, L A Stanchfield, 605 Montgomery street. Willow Springs, gold and silver, Coso district, J H Sayre, 407 Montgomery street. Wyoming, gold and silver, Esmeralda district, P B Oppenheim, Aurora.
Wm. Penn, gold and silver, Devil's Gate district, Henry Toomey, cor California and Monl Washington, gold and silver, Slate Range district, W H Clark, 224 Montgomery street. Winnemucca 1st Extension, gold and silver Silver Hill district, J TMcMahon, Silver Cits Worden, gold and silver, Monitor district, OH Wakelee, 612 Merchant street. Winoshick, gold and silver, Coso district, V B Post, Lucas \& Turner's Building. Washington, gold and silver, Great Eastera Ledge, L F Yates, Virginia Oity. Wilson, copper, Garden Bar district, Geo Bowes, 610 Clay street.
Washington, gold and silver, FI Dorado Canon, T G Murphy, Virginia City. Wm. Penn, gold and silver, Monitor district, A L Chamberlin, 413 Montgomery street. Wasson Consolidated, gold and silver, Reese River district, J Herrick, 606 Montgomery. Washington, $g$, s and $t$, Boi'ing Springs district, C Gardner, 3 Barron's Building. Wisconsin, gold, Virginia district, Jabish Clement, Metropolitan Black.
Wm. B. Astor, gold and silver, Gold Hill district, J T Steele, Virginia City. Warren, gold and silver, Excelsior district, Wm V Garvey, 619 Merchant street, Washington, copper, Tuolumne Co. H L Brooks, Government House. White Cloud, gold and silver, Star district, T Wallace, 1 Armory Hall.
Wyandott and Chrysopolis, gold and silver, Garibaldi district, W Flanagan, 8 Naglee's bd Winters, g \& s, Argentine District, C W Jones, 32 and 33 Montgomery Block. White Horse, g\& s, Humboldt couuty, H S Dalliba, 604 Montgomery street. Washington, gold and silver, Silver mouatain, T S Owens, 1 Armory Hall. West Ead, grold and silver, Silver mountain, S J Owhs, 1 Armory Hall.
Young Wnnemucca, gold and silver, Esmeralda district,_Aurora.
Yellow Jacket, silver, Gold Hill district, E Caldwell, Gold Hill.
Yreka, gold and silver, Esmeralda district, $C$ W Curtis, 606 Montgomery street.
Yarborough, silver, El Paso district, E Barry, 636 Sacramento street.
York River, gold and silver, John Gorman, 423 Battery street.
Young America Ocher, gold and silver, Amador Co. G J Turner, 606 Montgomery street.
York River, Reese River, John Gormam, 423 Battery street
Zepher, gold and silver, Lyon Co. N. T.
Zouave, gold and silver, C B Hart, 15 Metropalitan Block.

## GEO. W. CHAPIN \& CO.

 EMPLDYMENT DFICE
# REAL ESTATE ACEANCF, 

Furnish Employment for, and supply all kinds of Male and Female Help for MINES, SHOPS RANCHES, HOTELS, FAMILIES, Etc., Etc. Also with the above give attention to

Washoe, Mexico,

Humboldt, Colorado,

Esmeralda,
Slate Range,

Reese River, Owens River.

VOL. VI. SAN FRANCISCO, NONDAY EVENING, 1 LGUST 24. 1863. NO. 43.

## REMOVAL.

The Ofice of the Mining and Scifatific Press, hav been moved to Rooms Nos. 56 and 57 Guvernment House, corer of Whalingtun and Sansome Streets. We have been flaced to make this change of location, not ouly with the Pew of securing in re roon and better accommodations for arselves, but chiefly to better accommodate persuns having dsiness with the office. Our lucation is now central, easy ancess, and in the direct way of the chief travel of the ty to and from the Post Office.

## Our Proposed Enlargement.

The rapid increase of husiness hoth in the enlargement of ir circulation, and in additions to our advertising patronfels such as we hope will soon enable us to announce a prmanent enlargement of the paper. For the piesent we opose to issue an extra sheet every other week. We shall batinue this arrangement until our business, which we bat will continue to improve, will warrant a permanent enrgement, when the two issues will be thrown into one eeet and the paper established as a sixteen page issue.

## Our Mining Register

The,supplementary issue of the present week, will const mainly of a revised edition of our Mining Register hich will be delivered free to all subseribers. Eatha cop$s$ will be furnished to subscribers at the regular subscripon price-Non-suhscribers will be taxed tweaty-five cents. will be issued to-morrow-Tuesday.

Copprbopolis. - We continue, in our present issue, the pubsation of notes taken during a late trip to Copperoplis, his region is being rapidly developed by the energy of its uers, aided largoly by San Francisco capital. We spent veral days in Copperopolis, but not half time enough to come thoroughly acquainted with its value and extent as mining region. We shatl endeavor to place before our aders such facts as we were able to collect, promising ourIf another visit at an carly day, for more extended obsertion. We also hope at that time, to extend our trip inAmador, and still other portions of Calaveras county. In ir next issue we shall speak at length of the Keystone, hion and Calaveras Companies Mines, and also of the Naleon. We enjoyed our trip thither, much, and would take is opportunity to tender thanks for favors and courtesies ceived-especially to the Messrs. Powning, to Mr. J. W. $3 a n$, the gentlemanly clerk of the Copperopolis Hotel, and Mr. W. T. S. Ryer.

Ratlroad in Nevada Territory,-The Virginia Cityand uckee Railroad Company has been fully organized and a rvey of the road completed, and gradiog is to commence mediately. The road runs from Virginia to Washoe City, distance of thirty miles. A branch of four miles debouches d touches Carson City. Ti e estimated cost of equipping d construction, is $\$ 2,583,06956$.

The Pennsylvania Coal Mines Considered in Connection with the Recent North rilnvasion of Gen. Lee.
There is little doubt bot that the destruction of the Pennsylvania Coal Mines was a portion of the rebel programme as blarked out by them on the recent invasion of Lee. Had the confederate forces succeeded in occupying Harrisburg, the railroad communications between that point and the mines, about 50 miles distant, would have been destroyed, also all the pumping, hoisting and other machinery necessary for working them. It is not at all improbable that he would also have set the mines on fire, as he night easily have done, thus literally kindling a flame in the heart of Pennsylrania, which could never have been quenched except by turning rivers of water upon the conflagration!

The damage not only to the great industrial, but also to the commercial and military interests of the country which would have resulted from such proceedings can scarcely be estimated. All other raids which have been consummated by either or both beligerants, would, in their aggregate even, have fallen short of the tremendous blow which the destruction of the Pennsylvania Coal Mines, would have inflicted on the North. Northern industry would have been completely paralyzed by this single blow.

Anthracite coal is found in large quantities in no other part of the world but Pennsylvania. Enormous quantities of this description of coal are used for making steam in the countless workshops and manufactories of the North, and on their river and ocean steamers; while the Federal navy, as at present organized, would be almost powerless withoutit. The bituminous coals which are found in other localities, are farinferior to the anthracites for making steam, while the cost of transportation of such coals to the Atlantic coast would be enormous. The Richmond Whig of July 2nd was quite jubilant over the prospect which then existed that this terrible blow would fall upon us. It was hapily averted by the terrible battles of July 1st, 2nd and 3d, and the government has evidently become aware of the great strategic importance of Harrisburg, and energetic measures are in progress for securing its safety against any future contingency.
Improved Water Pipes.-Wrought-iron water-pipes, lined and coated with hydraulic cement mortar, which are great improvements on other substitutes for cast-iron pipes, are now, at the East, rapidly superseding the former exclusive use of iron, under conditious of expense, oxidation, tuberculation, and leakage, which involve serious objections in water-works practice. These pipes have spigot-joints, can be back-filled as soon as laid, and tapped in the same manner as cast-iron pipes. Cement lined and coated water-pipes are now in use in a large number of our northern cities and villages, and have proved very satisfacto'y in operation.

State Agricultural Soctety.-The Tenth Annual Fair of the State Agricultural Society will commence on the 25th of September. Ten thousand dollars have been appropriated

Mr. Hidiur :-You will beur me witness that it was only at the last moment before your going to press a fortnight ago that I penned the few lines which appeared in your mimber of that date. Thesy were inte ded to prevent any of vour readers from purchasing sulphate of ammonia or chlorate of potash instead of sulphide of ammonium and chromate of potash, which those of them who relied only on "P's" commuaication would have been likely to do. With the errors that he says "crept in by inadverterce," left uncorrected and therefore by implication coufirmed, "miners," not "yros in chemistry", might otherwise have wasted their money and their time. " $P$ ' $s$ " rejoinder in your paper of lats week gives much more importance to the subject. I found the letter in "Tue Miners' Laboratory." "P" now classeb it with the works of "authors on practical chemistry." Does he really wish to imply that he considers his "list of rengents for silver complete?" It, contains but six. Rosé enumerates 19. I think, therefore, that I had a right to assume that the six were selected for their aptitude for occesional use, away from the resources of a fixed laboratory. I apoke of two of them as not commonly used. What is the fact ? Alo a, they do not furnish distnctive tests, when employed with solutions which may contain other metals than silver. The chromate of potash is classed by the above well known authority among the least used reagents. Can "P." buy one pound of the pure salt in San Francisco, in a day? The sulphide of ammonium is one of the most perishable articles we use. The air contained in a half filled bottle will destroy its purity. Fownes, Lamborn and Muspratt omit one or both. I have referred to books in my reply to the enquiries of "P," but I will venture to say that "P" in his practice, when traveling or prospecting, would never encumber himself with so superfluous an article. Why does "P" sneer at me in reference to chlorine? I wrote chloride. Need I tell him that I meant chloride of potassium, or chloride of calcium, which occur according to the mode employ: ed in the manufactiue of the chlorate of potash.
"P" might have been "absent," I thought, but he has returned to his task, and he is still of opinion, he says, that "a solution of hyd,ochloric arid" added to the "contents of a bottle," will "precipitnte (silver.) antimony and bismuth." His first letter stated the color of the precipitate, viz: "wohite." I cannot doubt therefore that he has seen it. Allow we to congratulate him on his discovery; but why did he not amnounceit as such? He added that "a qua.ter of an ounce of hydrochlorit acid" (I suppose the ordinary solution in water) would dissolve the antimony and bismuth, in a few moments. Your readers are therefore in this dilemma, either hydrochloric acid will both dissolve and precipitate these substances, or "P" has omitted to state the important ingredient in his "solution of hydrochlorir ncid," which precipitates antimony and bismuth and makes them rapidy dissolve again. "P" opened with supposing that "the solution" of pure silver was made in nitric acid. He directs no change to be made in this solvent. It will be a farther addition to science, if he will state explicitly how he can dissolve antimony in that acid. It will enlighten many

A Pgor Chemist.

## COPPEROPOLIS AND ITS MINEA.

In our last issue we gare some account of the early discoveries of copper in Copperopolis and its ricinity. A short time after regular work was commenced upon the mine, (early in the Fall of 1860,) Mr. Reed, one of the discoverers, being satisfied that the same would be permauent, put up a cloth house under the big onk tree still standiag in front of the Copperopolis Hotel. This was the first house of any kind, built in Copperopolis. It was used as a boarding house for the hands employed upon the Keystone mine. The- next house built was a small wooden building, still standing on its original location, a few feet distant from the first, and now used as the Justice Court Room. This was also built by Mr Reed, and used as a boarding house for the hands empluyed upon the Union mine. Other structures, of wood and cloth, soon began to grow up around these pioneer building.
Early the following Spring, (1861,) Mr. J. M. Bean, fully satisfied from the derelupements alrealy made that a town of considemble size must speedily grow up in that locality, commenced the erection of what is now known as the Copperopolis Hutel, one of the largest structures in that regiou of country. The commencement of this edifice led to quite and excitement, and a general staking out of lots, was immediately commenced. From that time to the present, Copperopolis has been rapidly increasing in growth and importance, until it now numbers a pupulatiou of fully 1200 souls, with three hotels and several restaurants, two livery stables, two barber shops, six or eight well filled stures besides nuwerous smaller estallishments, where "creature comforts," etc., are dealt out. A school house has been erected and a lot of ground set aside for a cemetary. Religious worship is held in a public hall.

Copperopolis presents at the present time, all the peculiar characteristics of one of the early miwing camps of 18.50 , with the exception that its houses are constructed of lumber rather than canvas, as in those days. We know of no mountain town which bids fair to enjoy a more prosperous or permanent future then this young city of copper. It possesses mines of undeveloped extent, and of the most undoubted richness and permanency. Its future increase must reasonaably keep pace with the developement of its mines, which, thus far present indications excelled nowhere else in California.

## tee mines of copperopolis and ricinty.

The traveler in approaching the foot hills from Stockton, on the Copperopolis road, if at all observant, will notice soon after leaving the plain a most marked change in the character of the country, which is not observable at any point north, along this range of hills, for at least a distance of one hundred miles. The change here alluded to is one, chiefly of a plutonic character, although the sedimentary rocks have at intervals been disturbed by protruding masses of the older chrystaline formations, the latter also much changed by beat. This belt of country is from four to five miles wide, from east to west. Its linear extent, north and south, we had no time or opportunity to observe, but from reports of persons familiar with the country, we infer it to be three or four times its width, at least. We apprehend that but few continuous veins of minerals will found be in this belt. The veins, whereever found, will doubtless be rich, in chimneys; or if continnous will be subject to numerous faulls, or dislocations, which will entail much expense, in working, to keep the course of the vein.

Af er leaving this belt, in traveling eastward, the observer will notice quite as marked a change as on entering it. Its eastern limit is clearly marked by a well detined belt of slate "tilted" as the commonly received opinion is, into an almost perpendicular position, with its slarp, rough edges sticking out of the ground from a mere perceptible uutcrop to sereral feet in height. We have very lititle faith in this "tilting process, in most instances, and in this, in particular; but of that at some future time. How far eastward this belt extends, we know not, for we explored no further in that direction than the town of Copperopolis. Along the linear extent of this slate belt, conforming in dip and direction with it, is what is evidently the mother vein of the district, and upon which are located, commencing at the northern extremity, the Consolidated, the Keystone, the Union, the Empire, and the Calaveras, which are adjoining claims, and through each of which there are unnistakable evidences of a continuous rein.

The character of the euclosing rock, and the surroundins
conntry generally is such as would lead the miner to look there for a continuous rein, without faults, and of a generally superior character. There are no indications of any local disturbances which might be supposed to proance "faults" or any special or eatensive inequalites in the yield of the eins.
This vein may be looked upon as the "Comstock" of the copper region. There are numerous ott:er veins, outside of this, some of which have already been found valuable, and others, yet undeveloped, show most flattering indications. Among these latter we might mention prominently the Eureka and Elizabeth, Oousolidated, situated on the Eastern slope of Bear moutain. This vein, located about three miles to the east of Copperopolis, slows most unmistakable indications of richness. The Company have sunk a shaft of fifty feet, from which they are now taking out ore. This veiu was originally takeu up for silver. It assayed from $\$ 4$ (c) native silver were taken from ravines crossing this rein some five or six years ago. The ore is a sulphuret of copper, with the usual show of carbonates on the surtace. The Company, which is composed mainly of San Francisco men, intend pushing on the work of development with the utmost rigur. The mine is under the superiutendency of Mr. Solomon Julnson. Among the extentions of this lead we notice particularly the Crockett. This Company has taken out some 20 tons of ore--fine yellow sulphurets.
The Table Mountain Company, is generally supposed to be a continuation of this lead, although many think it upon the Union and Keystone lead. Its position would seem to indicate the correctness of the first conclusion, but its general characteristics resemble more those of the Keystone than the Eureka.
Swinging around to the southward and eastward, about four miles from Copperopolis, we came to the Webster and Scorpion Company's claims, continuations most likely of the Union. The former has already shipped some fifty tons of ores to the smelting works of Antioch. They have sunk a shaft 130 feet deep on a well defined lode, six feet wide all the way down. The ore near the bottom of the shaft avtrages about seven or eight per cent., but is now improving with the decent. The Scorpion Company's claim is an extention and has also a very fine lode, yielding a higher grade of ore at corresponding depihe. Considerable prospecting has been done upon this clainn, but no large amount of ore has yet been raised from the mine.
To the south of Copperopolis, some four miles distant is the Swansey and Massachusetts Company's clairns. The former has a. shaft on their lode 70 feet deep, developing ore similar to the Webster and Scorpion. At that depth the shaft leares the lode and has gone down thirty feet further, from the bottom of which the workmen are now drifting to the lead, with the expectation of finding richer ore than at any point opened above. The Massachusetts is a new claim and an extension, presenting flattering prospects. The surface indications are better, if anything, than even the Swansey.
To the west of Copperopolis, and in a valley lying parallel with that in which the town is located, there are a number of mines opened, with flattering indications. At the time of our visit, no work was being done upon any except the the Harlem and the Powning. upon the former, a large amount of work had been done under the direction of Mr. Westby the discoverer and Superintendent. Mr. W. showed us one of the finest shafts which we have ever seen in any locality, which had been commenced, but abanãoned for the time. It is contemplated to put this shaft down, at some future time, to strike the vein at a great depth. At present be is taking out rock from near the surface, from another shaft. The ore from this mine is of a very promising character, considering the depth which has been reached. It reseubles the Napoleon ore more nearly than any other which we noticed in that locality. Passing on, up the valley, we stopped for a few moments at the Kentucky company's shaft, near which we found some very good ore. A short distance from this point is located the Powning claim, a new location presonting very rich croppings. At the time of our visit the workmen had found no very distinct vein, but had arrived at indications which gave promise of soon arriving at a good lend. There are quite a number of other leads in this locality from which we shall probably hear favorable accounts ere long.

Some two or three miles above this locality a new town has been laid out, uader the somewhat high sounding title of Carmen Cify. At the present time it consits of sume three or four houses, only, but from the appearance of numerous specinens of copper ore which were shown us as having been taken from the mines of that neighborhood, we should not be surprised to see quite a town there in another year. The' miners of Carmen City will have to go to work and do something to develope their mines, however, before they will be uble to attract much capital thither. Copper indications have become quite to common at the present time to attract much attention from moneyed men, until some reasonable amount of labor has been done towards their development. It is not every vein that produces a few specimens that will turo out a good mine. Mines must be proved to have certain specific indications before they can be called mines or possess a value in "feet." Miners of every class will do well to bear this fact in mind and act accordingly.

## PROGRESS OF THE PACIFIC RAILROAD.

Steadily and surely onward is progressing the work of thi, great traus-mountane railroad, which as the Western divi sion of the contiucutal roul, is destined, ere long, to unit the Atlantic and Pacific coasts, with indisoluble bands o iron, cemented by a common interest and a united dostimy The first division of 50 miles from Sacramento is alrealy ur:' der contract, and the second division of the same exten which reaches to within six miles of the summit, will also b under contract by the first of December next. The rout decided on is via Auburn, Illinoistown, Duteh Flat and Her. ness Pass.
Work has already been commenced and is going bravel on. Slowly but steadily and surely, the iroa feet are trampin, up the Western Slope, and ere another twelve months shal. elapse the locomotive's whistle will echo along its lower hil and valleys. Three years can scarcely come and go cre th, iron horse will mount its heighest level, pause a time, upo' its giddy height, then resume its onward course across th hills of Silverland, along the valleys of the Great Basin, ar bounding over the slight obstructions of the once dread Rocky Mountains, continne its career far over the distal Plains beyond, and down the magnificent valley of the Platt until it reaches the turbid waters of the Missouri, where, u less the cnergies of our people are greatly overrated, it ir arrive in season to celebrate the return of our next nation decade.
Six miles of the first section of the Western terminus the road are now ready for the rails, and six miles more $W$ be ready during the present month. Six thousand tons of ir have been purchased, the delivery of which will ${ }^{\text {soon }}$ cot mence at the rate of 500 tons per month. A large portic of this amount is now on its way from the East. Six loc motives, six passenger cars, twenty-five freight cars and ti bagage cars are now on their way hither, as also are the tur tables for the first fifty miles of the road.

Yreld of Lakr Superior Mines.-The Houghton M. ing Gnzetle, of July 4th, gives the following as the yield three principal Copper Mines of Lake Superior for the mon of May last:-
The Quincy is again entitled to the flag for the largest pri: The following are the figures :-


The above mines have been fairly opened, and under en getic progress for about eighteen years. Califormia will p sent three, certainly, and we think we could name five if , six copper mines, which will make a better exhibit of yi. inside of twelve months from this date.

Prospecting for Silver.-We learn that a party of $c$ italists in this city have associated for the purpose of anibing mining claims in the neighborhood of Colimo," of the richest silver districts in Mexico. A man of sc: tific attainments has been employed and sent forward) prospect the claims in view carefully and thoroughly. telligence of his arrival at Manzanillo has been received, $\frac{1}{3}$ his return is looked for in the course of next month. She 1 he report favorably, a cousiderable amount of capital wil $\theta$ an once embarked in the enterprise.

A NEW IDEA AND A GOUD ONE.
The Fimeralda Times, in speaking of the progress of the work upon the Stanfurd Tunnel in Aurora, nutices the folluwing ingonious expedient for furnishing light for the Workmen during tho day time :
The fumel, the mist of the day, is work ed without using candles. Mr. L. L. Ieming the Finamial Secretary of tho Comp ny and bacting Supurintembent, has found a more feofomical liyht; he uses the sun to work py. The tu nel is so mbirably situated and the cut hemy so wide, that it onables him, by the us of a mir.or, to reflect the full miys of the sun quite in to the end where the men are at work, and it is so light that a enper can be roud as easily as on the out ide.
The above tunne! is in ahout 150 fect, with a) open cat at its entrance, quite large ifexent and height. Miners in other local ith, driving tunnela, will do well to profit by th hint. The light istroduced ad above, is nuanly free of cust, but must be infuitely beth than that derived from candles.

Tipe is Truik of establishing a Stock Boarat farson City, N. T'. The local $\mathrm{P}^{\text {R- }}$ per the predicts success, should one be es tablish1. Why not?

Elmetcal Light in Paris.-The lighting of $\mathrm{H}_{\mathrm{is} \text {, it }}$ is stated, is to be intrusted to M. J. in Malderan, who has invented a new elege light, one jet of which is equal tw 2,200 Jy of gas. The llince Saint Sulpice is drined to be the first where the essay is to bried.
Quick $W_{\text {к. }}-\Lambda$ letter from West Point states, as arxample of the efficacy of the graduating $c_{s}$ of cadets that they dismount a cannon, and parate the parts of the car riage, and re-4e them, and fire the gua in 26 seconds.

HAYNE\& LAIVTON, MMPORTEIND DEALERS IN
CROCEERY, GLASSNARE,
FRENCHCHINA,
Coal Oil Lamps, lable Cutlery
CLOCS.
Silver Plated and fania Ware, ETC., ETC., ETc.
NO. 516 SANSOMYREET
[CORNER OF MERCI;

WRIGHTS PM.
$\mathrm{J}^{\mathrm{am}}$
 description of PICKs, of the best ip (3) , at rolucest
pricos. Pick Exes of the best iron fult iu aby qualu Lity, at low rates Orders from thatry promplly attended to. N. B.-None genuine $5_{5}$ itampod with
my name. JOHN WRIGHT, ${ }^{2}$,


## WANTED

 CUTTILNG JEWEL

By frontier A. $\mathrm{I}_{\mathrm{p} \text { ( }}$
18 ap
487 Piese street, San :isco.

## San Francisco Machino

## IRON WORKS!

A LI, KINRS OF BACMINERY MADE TO ORDER

 FOR SALE.
One ruprght Porst hrill, Puthan's manufacture, A1onsw thrty iwhla-eryw huek.
Sin Franciom, July, 1853.

## WHEELER'S

Amalgamating and Separating Pans.
It is nekumwelged by all who lave examined the prin-


rution of these pians is thi. sitplathon of the trituratieg

 workug the trituration this tors is entirely newided.

Whure the e Pans have been intronluced and operated
iy the side of on hers on sumds from the same witt, the
 of untals over ths romprifiturx, as well us a still larger
arentitage lit the amount of werk purfurmed.
"* These l'us may be seen io disily operation, at the Hiner's lioumiry, man lirst atreet in this city, where all 2016-4f ZENAS WHEELER.

## Miners' Foundry

## MACHINE WORKS,

First St, between Howard \& Folsom, SAn frincticu.
$\mathrm{C}^{\text {Yery megripiplon of tron and brass machi- }}$ thestato of Cabitornia, wall be furniched with dis-
Steam Fughes and Rollers, Flour, Saw and Ouarlz
Steam Fughes and Roilers, Flour, Sow and Quartz
mill machiucry, Mining Pumps, Amalgamatork, Retorts,
Etc.,
Etc.
Particulnr attention will bo given to the manufncture
of Wachinery in Sections, desicued for places of diffeult of Machinery in sections, , ofesigned for platers of difficult acenxs, Vrywar murdels on Quarlz Crushers, Amalqams-
tnes nud Water Wheels-some in opertation aud on exhiblion. Partica desiring to test their ores practically, in
sm:tll quantities will to aforded amplo facilities, freo of am:tl quantities will to afforded amplo facilities, free of

All parties desiring accurate avd highly finished draw ings and superime Mrachinery, at most. rensultahle rates
aro cordially invited to call befure contracting elsewhere HOWLANH, ANGEL \& KING

## 50 lbs . MIARIIV: and

Fire-Proof Paint,





DIRECTIONS:
For Decks of ships, use two parts Mineral Paint, one
Mart White Lual, maxwith Linserd til. For Bottnms of Vessels, use ome part ground sulphur, throe patts slimeral I'aint, mix with Coal Tar and apply
it hot.
For snleby allship Chandlers and Trndesmen, in boxe For anlepy nllship Chandlers and Trndesmen, in boxe
of 50 lbs , euch, or by the l'acitic Detallurgical Works.

## as POUNDS FIRE-PROOF PAINT.

When used on Ronfi, Buildings, or Fences, it is equa to covoring them witls a coat of stone, beiog perfectly
Fire Proof, and costing less than any puint.

## DIRECTIONS

HOUSE :-Mix thre parts Mineral Paint $\boldsymbol{H}$ ith one part
whito lead, thin with Linseed oil: if $a$ lighter color is Whated, mix lose paint, marre lead.
Roof :-Five prite of Mineral Paint, one nart whito
Lead; mix with Litused nil. I'ut it thick on a lin Rons Lead; mix with Litseed nit. I'ut it thick on a lin Roo
as one cout when properly applied will last thre y yars.
S. U. BRADSHAW, Agt.,

New Patent Agency.
 The Patent Agency Business,
 Put+it int the l'a-the contht. Ayply at


FOREIGN PATENT'S OIS'AINED


## NOTICE TO INVENTORS.



## PATENT RIGTTS.

Patent Righis Bought and Sold, At the ofles of the "Miang aud scientihe Prent." Acrncy
EWHR \& SMITH.

JMPORTAN'T 'TO INVENTO!'S.
Inventors who ohtaiu their Patent throngh thix ofle Cats have their laventions fllustraled nad dencrohed in
the columas of this paper Fkhe of charge, they merely

 care to gn to the expense of having engraviuge prepared
can lave theor iuventions fully unticed and described cath hava thenr iuventions fully untiecd and described in
our columas, free of clarge. The fige use of our eat our columang, free of charge. The fice use of our che mullic w
ventors.

MIINING \& SIENTIFIC PRESS. THE ONLIMINING, MECIIANICAR AND SCILNTEFIC PAPER ON THIS

THIRD YEAR: vOLUSE VI.-NEW SERLES A wew volnme of this oxtellsively elreulated paper commenced sicht. 11, 1862 . It is intended that orery
number slanl be replete with information concerving number shall be replole with information concerving
Mining, Scientific, Meclinnical and Industrin1 fursuits, Mining, Scientific, Meclinnical and Industrial pursuits
toncethel with several origmal engrivinge, of new tngethel with severu orighal elugitioge, of he
tions, cte., preparod expressly for its columns. tins, otc., prepared exprussly for its columns.
This paper su devoted to the atove purposes, together With the interests of Ecience, Arts, Agriculture andi Cornmerce, and any general informadion. Lhat miy be of interest to the reader ; and it is the inteutinn of tho mro-
prietor to spare no pions or expense in making it equal prietor to spare no pains or expunse in miking it equal
in intorest and valuablo informaliou to any paper yet published

## The Mining Interest !

Will find it of grat ynlue, as it will contain all the nows aupartaiulug to Miniug, the prices and sules of Mining Stocks, uew inventions of Machinery adapted to tita
purpose, nod of everythug generally that may be of ser-
vice to the دiner. The Inventor I
Wial gud it an excellent medium for the parpase of
bringiug bis inventinn into notice, of ascertaining the progress of invention in this and other countrices, ant also of receiving any information that miy ho necess-
sary in obtuining has patert, the proprintors having had sury in obtaining has patut, the proprintors having had
great experiene as fatent Agents, togechor whll facs
itien gities at Washington that enablo them to ubtain Patent

The Mechanic and Manufacturer! Will be preatly benefitted by its perusil, as its col-
umns will from lime to time contan original engravumns will from time to time contun orisinal onfrar
ings of new machinos and iaventions, together with ings of new machinos and iaventions, togethe thereto
large ampuat of rombing matter appertaning the large ambut of relthing matter appertscientific jour-
Wo are ennstantly receiving the best se
nals from all quarters, fonn which wo kill continne nals from thl quarters, from which wo mhul continge
To Chemists, Architects and Millurrights. This journal will bo invaluable. All bes discoveries
in Chemistry will be given, ind a large amount of information of great service to Arclittects and Atillwrights will bo found in our enlumus. The Farmers and llan-
tors will not bo neglected, engravings will be given of ters will not be neglected, engrav farming interest gen erally will be amply discussed.

## To mall subseribers:- Tourms. Ifoliors.

Five Copies for Six Mnathes $\$ 8$.
Ton Copies fror Six Mnnthe, $\$ 16$.
Ten Copies for Twelvo Mininlis, कiso.
Fiftern Copies for Twelve Months, \$44.
ption is conly se xuw- Names cuut be sent in at differ ent times and from rifferent Pnst-unires- Sprcimen
copies will be sent eratis to anr nart nf the muntry.

SOU'FH PARK
Quartz Mill and Reduction Works,


MININGADER STOTT, 612 sunsume Sterse, San Frauclisco.



## PATRONIZE HOME MIANUFACTURIES!!!

## James Longshore,

Trunk and Valise Manufacturer, 307 Simsomu Sreet, ubiler Telama Hewne. Trunhex and
 stancly on hand. Trubts cavered and repaired.

## W. W. HANSCOM, <br> Steam and Mechanical Engineer,

Designs furished, and Drawings mado for Engines, Mills, Water Wheels, Mining Mar chinery, etc. ftc.,

State Iron Worke,

Jons P. Gallagher..................Joasiry H. Wish.
GALLAGHER \& WHED,

## BRASS \& BELL FOUNDERY AND <br> LOCK FACTORY.

## No, 126 First street, opposite Mrinna, next dour to Pacifo

Brass and Compositnon Castings and Finishing, done with neatness and dispatch,
Churcit and steamboat belits, of ald bizes Mrale to order. Engincers Gongs made ani hung
in the vest innmer.
Bank, Vault, store nad Prison Lucks, aloo b. ass ladnclks and Shop Locks of various n3. Marticular attention given to castling Rudder Bra-
All Jobs promptly attended to.-Trices moderate.
P. DONAHUE, H. J. BOOTL. C. s. HGGENS

## UNION

IRON AND BRASS FOUNDRY.


## HAVING ADDED TO THE SEVEREAKA

 antishment is now the most Exteusive and Complete of uny on the lacitic Const.The andersigned are pripared to furnish, at short nofice, Locmnotivo, Mariue and Stationary Lagines, of evory size and descliption

> BOILERS.

## Lncomotive, Flue, Tubulir, Upright and Cylinder, fur-

Whel with or without engines, complete.
Machinery and Castings of every description, SawQUARTZ CRUSUING BATTERIES Embracing a great varicty of Stamp, Mortar and Cam Patterus.

## AMALGAMATING MACHINERY,

Varney's Improved l'atent Pans and Settlers, Wukely SBills, Couceuthators, etc., olc.

MINING PUMPS.
Cornish, Lift and and Force Punps, from four to cight teet stroke, with P'ipes, Bob Mountings, and GearHOISTING DRUMS.
For Shatts or Jnelines, with ciutch, friction or $V$ ennes. Sole Agenta and Mumuacturers for the Pacific Const, of
C. anm : G. M. Woodwards Colebrated Patent Sufoty C. alm \& G, M. Woodwards Co
Steam Pumps and Fire Engines.

All Contracts and Orders executed with promptness and difysich, and at reduced prices for Cash.
je21 DONAHUE, EOOTH, \& CO.
Washoo Correspondenceos

## A. C. MORSE,

## Minining and Real Estate Agent,

H

flice in Shiel's Block, npmento Masemic Truple.

THE COPPER INTEREST OF CALIFORNIA.
Notuithstanding the great altention which is now being attracted to the copper interest of this State, we apprehend that but a very imperfect idea of its actual present extent and importance is en ertuined by even well informed observers. ludeed, in the existing lack of statistical information, it is difficult for readers to inform themselves upon this point. The flush of excitamen which a few months since pervaded the public inind has, in a nutasure, passed away and given place to active aud persistent labor in developing the mines, and in bringing to the surfae and shipping to a varket the most valuable portion of the ores. Work enough of this description has been done to establish, beyond a doubt, a high value for quite a number of mines, and to affurd reliable data for impor ant calcalations and estimates with regard to the future of this new branch of nur mining industry.

It is now less than a year sin e W. K. Reed, the discorerer of the Union mine, in Copperopolis, sold six shares, or 975 feet, of that mine to the huuse of Meadur, Lolor \& Co. of this city, for the sum of $\$ 65,000$. The developments of the min- since that sale hare been su $h$ as to place its present actual value at fully $\$ 1.290$ per foot or $\$ 1,140,000$ for the interest sold by Reed. We have no idea that even the smallest interest could be purchased in this mine at the advanced rate above named. Probably $\$ 1,500$ would be a low estimate of the actual value of this mine per foot. We understand that no assessment was ever laid upon the Uvion Companys ground. Not even Washoe, with its famous Comstock lude of silver can make a better showing, in time and results.

Shipments of copper ore from this port to New York and Boston since the first of January last, inclusive of the cargo of the Mary L. Sutton, which sails, to-day, cannot be less than 4600 tons, with an argregate value of full half a million of dollars. This is independent of no inconsiderable quantity which has gone forward to Europe on fureign account. The ore thus shepped, it should be borne in mind, is only a small portion of that which has been raised As for instance, the Keystone mine has shipped, in all, from its first openi-g, abont 1200 cons. In getting out this amount, they have also raised at least 10,000 tons, which still lies at the mouth of their mine, as second class ore, which, when concentrated by the machinery now being erected, will make abuut 4000 additional tous of shipping ore as good as the average of that which has gone forward. The Linion Company has about 15000 tons of second class ore upon the surface, which is considerably richer than the Keystone, and which will probably yield, by concentration, ab at 7000 tons of fair shipping ore. These are the results of two mines only, obtained within about two years.

There are now some ten or twelve mines regularly shipping ore to this city, most of them in small quantities. it is true, but all pusting on the work of derelopment with an energy which gives promise of a rapid increase and an early magnitude of the copper interest, fully commensarate with the highest degree of importance which bas yet attached to it. In addition to these there are lundred of others which have been discovered, a large proportion of which will undoubtedly be developed into paying mines.

It has been feared by many that the great increase of the copper yield foreshadowed by the wonderful discoveries in this State, will so efiect the value of that metal as to bring it below the standard of a paying business. There need be no fears of that: Copper bas been regularly advancing in price for many years. Even the Lake Superior mines, although they have nearly douhled the yi ld of that 'metal have not even checked the advance in its price.

It is, or should be, a well known fact that the Copper mines of Cornwall are goving out-that is, their yield is changing from copper to tin. Many of the once productive mines of Cornwall are now workedfur tin only, the copper having gradually run into that metal, as the depth of the mine has increased. Chili, another great source of supply, is also d creasing its yield, with a fair prospect of an almost total cessation thereof. The fact is, the discovery of some new copper field had become almost a commercial necessity, when a fortunate a cident turued the attention of California miners in that direction.
It appears to be one of the laws of an Overruling Providence that in all the great interests of human industry the supply is made to keep pace with the demand. The discov-

Igran powder are noticable instauces of this great law. The discovery of new deposits of the precions metals had become almost a necessity to the increasing commercial wants of mankind, when the new gold fields of Cali-ornia were opened up. So of silver in Washoe, and co! per, of a later date is no excep ion to this general rule. In supprrt of the position we hare taken with regard to the copper yield, we give the following from a ricent number of the London Min ing Jouronal:
"It appears from all informatiou that can be obtained that the demand for metals is greatly on the increase, amil min increase ns nation after nation see the the necessity of adonting liberal tariffs. The Copper Mining Interest has-suffered more than any other branch of miving enterprise during the last two years. A wide spread rumour was circulated, some montlis ago, that the stuck of copper in Englaud was much greater than for many years past; but such is not the fact. The stock at the present time is, actually, much below what it has been for several years, und the returns from the mines, generally, greatly on the decline. At least twenty of the greatest min+s in Cornwall, during the last forty jears, may be said to be almost exhausted-for copper, and some of them are now ranked as tin uines, only. Several of the mines in Chili are reported to be nearly exhausted or buve ceased to be of any commercial value, as they were surface deposits, principally, and the copper not found in regular veins or lodes as in this country; but mere curbonas or blocks of copper on the surface. Foreign mines will not pay, as a rule, at a standard under $£ 140$ ( $\$ 700$.) No duubt legitinate speculations in copper mines, at present, are some of the safest investments the pablic can embark their spare capital in."
Neiv Quartz Mul.-Mr. Johu Center of the Mission Gardens, is putting up a Quartz Mill capable of reducing about 12 tons of rock per day, on Center Street, near the Mission Bridge. This Mill is heing erected for experimental pardoses. It is a crushing mill, on the principle of that now employed for similor purposes at the fuot of Market St. The crushers will be graduated 80 as to bring the rock to the required fineness by a succession of rollers, after leaving which it will be sulijected to the action of an improred Chili mill process. The amalgamating nachinery will also be constructed on a new 1 rinciple. We shall give a particular and probably illastrated description of this mill and machinery, when completed.

The Hepbern \& Pierson Pan is a nev amalgamating pan which has recently been introduced into use at Virginia City, and which is highly spoken of. The Esmemalda Star says that it is about being put up in Gregory's mill, at Aurora The Slar further attests to three separate trials of this pan with as many others of different construction, in which the Hepburn \& Pierson pan each time excelled its competitora. We have no knowledge of the merits of the pan, and know nothing of the principle upou which it operates. If the proprietors have a good machine, they will fiud it to their adrantage to have its merits properly placed before the pullic. Illustrations are given in this paper, free of cost, where the parties furnish their own plates.

Pactific Board of Brokers.-A Board of Brokers, under the above title, was organized in this city on Tuesday, August 18, 1863. The following gentlemen were elected officers of the Board : James Hitchens, President: Wm. P. Denckla, Vice-President ; Jas. H. Gager, Stcretary; T. D. Mathewson, Treasurerer ; Chas. H. Watson, Sergeant-atArms. The Board meet daily at 12 M ., for business, in the new rooms of Thos. Maguire, No. 606 Washington street, near Montgomery.

Erom the Colorado.-Tho Los Angeles Slar says: Capt. Johnson, who arrived this week from the Colorado, brings with him specimens of ore, the richest yet exbibited here. Out of a piece of rock weighing two and a quarter pounds he ob tained fourteen ounces of metal, copper and silver. For the want of proper implements he lost probably one-third of the metal. There are thousands of tous of such mineral on the surface: and it extends for leagur s .
Chrap Tranfling.-A New York journalistjays he made trip from New Fork to Europe, pail for his passage and everything he had, journeged orer the continent and passed four months, for four hundred dollars.

## GAS AS A MOTIVE POWER.

The Paris "Scientific Press" gives a lengthy description of a new motive engine recently invented by M. Hugou, of that city, together with a philosophical explanation of the principles on which its action is founded. The article is quite too long to be transferred to our columns.
The idea of the application of gas as a motive power was first conceived abont the year 1853. From that time to the present much ingenuity has been devoted to reducing it to some; practical result. Moilels of the varions improvements have been preserved, so that the curious in such matters can casily trace the gradual development of the idea, and identify the various stages of the discovery. The machine now pre sented by M. Hugon is described as being correct in principle and emiuently practical in use.

## dhscription of the aas engine.

The generator, which corresponds with the boiler of steanengives is a curved tabe, in the form of the letter $U$; he summit of the smaller arm bears the valves of escape an of introduction, and the larger arm is provided with claks, which remain closed by their own weight. The clacks pen in the bottom of an upper reservoir. In a certain part (hich is variable) of the great arm of the U tube is placed awelling, which serves to connect the tube with the cinder. This is similar to the cylinder of a steam-engine, wh this exception, that it bears two openings for the intrlaction and two for the escape, of the liquid. Over these orifices are placed four slides, two of them being in comrnication with the vacuum tube, and two with a basin irvlich the water driven from the tubes can be evacuated, tb water heing firstly poured out in the reservoir which suounts the large arm of the U , and then passed into the bin by an over-flow pipe. The piston communicates the otion to a first-motion shaft, upou which ure geared thlifferent machines for giving movement to the pumps, orellows, of air or of gas, as well as to the different slidef the tube or cylinder.
These gencrators or tubes, above descrik, may be increased indeffinitely, as it may be desiral, to increase the power and so connected as to transmit to common cylinthe vacuum produced.
To cause the machine to work, it is nessary to fill with water the U tubes, the reservoir up to $\ell^{\prime}$ overflow-pipe, the swellings that put the second branches the two generators in communication with the cylinder, $\mathrm{t}^{\text {cylinder }}$ itself and the basin, up to a certain point. W) the various organs of the machine are filled with water, ertain quantity of the explosive mixture is introduced ${ }^{\text {ne }}$ valves at the top of the first generator, whose ignition letermined by the eleatrical spark, or by an incandescenktinum wire, or by a gasjet. The dilatation of the gases irried immediately to a very high temperature, drives a tain portion of the water of the generator with great for hrough the clacks of the great branch, into the higher rvoir, which, in turn, allows it to flow into the great basin

The valves are then openind the piston is advanced by the motion of the slides :onsequence of the vacuum upon one face, and on pther by the water exposed to the atmospheric pressure, ${ }^{1 \text { a force equal to the difference }}$ of the pressures exercise the two sides, or, to speak more plainly, with a fore ual to that of the vacuum produced.

The piston, in advanc, causes the water which is npon the face directed towar he racaum to replace a certain portion of that which 1 bed driven ont of the generator by the combination of egqs. When it arrives at the end of its stroke the msent of the slides is reversed.

The above descriptior if efully read, will convey aome idea of the priaciple of $s$ new and ingenious machine, which, may yet become an prtant instrument in advancing the great industrial commercial interests of the world.

The speed of rotatio the machine will depend upon the number of the geners tabes, and the dimensions and forms of the openings for introduction and the escape of the water of the cylinde ${ }^{t}$ does not produce, in working, any ribration, or shock ${ }^{15}$ kind; the heating of the water of circulation, aft day's work, never exceeds 1330

Fuhr. ; and the consumption of gas is abuat 53 or 56 cubic Feet per hurse-puwer per hour.
The Einglish Jour.al of Gas Lighting, from which we collate the above, promises further particulars with regard to experimental results. which we shall transfer to our columes whenever they come to hand.

## RIGETS OE WOMEN TO HOLD MINING CLATMS

A correspondent of the Firceinia City Union informs that journal that sume "smart individual " iu the Monitor District is trying to secure mining ground and make his furtume hy re-locuting, in that destrict, ull the claius that have been recorded in the names of women. The correspondant is hlso desirons of learning what rights women have for holding mining ground. The Lditor of the Union correctly iuforms his correspundent that in law, husband and wife are one person, therufure no man can, by using the name of his wife in locating, hold two claims upon the same ledge. Of course this would not prevent him from locating a claim for his muther, sister, cousin, or any femate in the world whose hosband was nut a locator un the same ledge, nor would it be any bar to the busband or wife acquiring, by purchase, an interest in the amme ledge in which the other owns by location.
Plain as is the above proposition with regard to the unity in law, of man and wife, it is, nevertheless, not an uncommon thing, in many localities, for the name of the man and wife to appear as locators on the same ledge. Of course such titles are invalid. It is feared that puch litigation is in store with receards to titles so held and conveyed. Much valuable nining ground in this State, has recently changed hands at high rates where the original title comes from locations made by man and wife upon the sane ledge. Capitalists will do well to look closely after the character of their titles. There is a degree of looseness manifested with regard to mining titles thut is seen nowhere else. There is no reason why the same circumspection should not be employed in searching into the validity of a mining title, that is always employed in looking fafler a purchase in real estate.

## SILVER CITY, N. T., MINING NEWS:

Tre Lady Eliden.-The Larly Ellen Company's mine is situated in Silver City, near the spot where the roads to Carson and Daytun branch. Work upon this claim, which is one of the most promising in Silver City, is progressing energetically. The company are hard at work upon two shafts, jiinking night and day, and have continued to take out pay rock from the surface down. They are now shipping rock to the regular mills which will pay about $\$ 60$ a ton.
The Champion.-The Champion is one of the best claims in Silver City. It is worked through a tunnel some tro hundred feet in length; the ledge ranges from four to seven feet in widtn, and the rock pays about sixty to seventy dollars a ton. The crushing is done at Gears' mill in Carson.

The Proneer Clalm.-Very rich rock was recently struck in the Pioneer Company's claim, Silver City. This claim, as its name imports, was among the earliest taken up iu the TerIritory.

Ther Carsox Clain, in Blue Sulphur Spring District, has recently tarned out some fine looking ore.

State of Washof.-Provided the people ef Nevada Territory vote "Constitution, yes" on the 2nd day of September next, the delegates elected will assemble at Carson City, on the frist Tuesday in November to frame a State Constitu tion.

Pike's Peak.-The Denver News says matters are look ing up in Colorado Territory. In some localities miners are realizing from $\$ 10$ to $\$ 30$ per diem 10 the hand. Georgia, American, Galena, Delaware, Gold Run and French Gulch. es, are said to be paying immensely. Everybody has plenty of money, and such prosperous times were never known before in those diggings.

The Pacific Mineral Company are shipping, the present week, to England, ores of copper, gold and silver. This shipment is made per ship "Orpheus."

The Tearl fishery in Ceylon the past year has realized over a million dollars.

## THE MINING SHARE MARKET.

The excitement in the Mining Share Market heretofore, of late, nuticed has somewhat subsided. Operations for the week past, though embracing quite a wide range of stucks, have been, with a few nuticable exceptions, rather at declining rates.

Uphir has advanced to $\$ 2,500$, on thirty days; Gould \& Curry remains firm at $\$ 4,750$ ( 1 . \$4, 800. A few Augus dividends have been sold for $\delta 147$ hy inresolute holders. 'The more prominent holders of both Uphir und Gould \& Curry, manifest quite an indifference to their market value, having fill faith in the mine as a permaneut dividend paying institu-
tion.
Chollar, early in the week, declined to $\$ 000$, but soon recovered to $\$ 1,200$ and closed at $\$ 1,100$, with small sales.
Potosi has advanced $\$ 125$ and is quoted at the round figre of $\$ 1,000$, with a firm market.
Sierra Nevada has been a favorite of the week. We quote at $\$ 100$-a material advance. Shares to the number of 422 have changed hands at rates ranging from $\$ 87 \frac{1}{2}$ @ $\$ 106$.
Daney has been largely dealt in ; 597 shares having changed hands at fluctuating rates, ranging from \$105 @ \$150.
Buckeye still continues the fancy of the market. It opened the week at $\$ 40$, a small advance, soon reached $\$ 48$, and finally closed at $\$ 371 / 2$, a shade lower than the figure with which it closed the week previous. Several hundred shares f this stock are reported among the sales of the week.
North America, at Gold Hill, has been considerably in favor, 418 s hares having changed hands-fluctuating from $\$ 50$ (a) $\$ 67$.

Overman shares are still growing in favor. Opening with $\$ 390$, the closing bid of the previous week, they steadily advanced to $\$ 495$; and at the close $\$ 510$ was bid without finding sellers.
Burning Moscow, not much dealt in; dull at $\$ 85$. North Potosi, at $\$ 40$; Lncerne, at $\$ 25$; Lady I3ryan, $\$ 121 / 2$; Meredith, $\$ 50$; Burnside, $\$ 5$; El Dorado, closed at $\$ 70$; Sacramento, $\$ 80$; Madison, $\$ 20$; Bullion, G. H., 69 ; Pride of the West, $\$ 95$; Grass Valley, $\$ 60$.
North America, Gold Hill, has been much in favor, fluctuating from $\$ 50$ to $\$ 67$, with a large business.
Esmeralda shares have not been largely dealt in. This district still seems to rest under a cloud, but the enterprise of its mining population; in their resolute sfforts to develope their mines must soon bring it out brighter than ever. Strangers visiting that locality, are invariably surprised at the representations of the bears and other interested parties, in this city, with regard to the value of the mines. The camp is evidently deficient in effective mills, yet the average of the rock crushed there is fully equal, if not in excess, in point of yield to that crushed in Virginia City, 'The mines here are in fact just beginning to be developed, and it is safe to predict that another year will bring about results in this
locality that will astonish even the must sanguine.
Wide West has peen very little sold; dull $\$ 145$; Esmeralda, $\$ 25$; Bamboo, $\$ 30$; Pond, $\$ 373 / 2$; Falls of Clyde, $\$ 5$; Ural, $\$ 1621 / 2$.

## Josephine, Coso District, has been cousiderably delt in COPFER.

The Copper interest still continues to attract a large share of attention. The regular arrival of ore from the interior ; the gradual increase in yield of the older mines and the continual addition of new ones to the catalogue of those producing ore, considered in connection with the increasing aggregate of shipments East, to domestic and foreign ports, is giving a degree of importance to this growing interest which cannot fail to arrest the attention of our moneyed men. The "Mary L. Sutter" sails to-day, with about 600 tons of ore from the Napoleon, Union, Copper Hill and Alta mines. The The Preific Mineral Company are also shipping, this week, per the "Ospray," to England, both cupper ores of gold and and silver, Active prospecting operations are still in pro-
gressing throughout the entire copper region, and quite a gressing throughout the entire copper region, and quite a
number of mines in addition to those already shipping, will soon commence sending their ores to market. The Wilson Copper mine, some six miles above Lincoln, is now putting up a twenty-horse power engine for hoisting and pumping, and will commence shipping ores as soon as their machinery gets to work.

RaPORT UFNBIDS
AE the San Framelaco Mining Stock Board, For tho wouk culives dug. 22, 1863.


## SUGGLITIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general
rule, any invention which is valuable to the patentee in this country, is worth equally as much in Bingland and some other foreign countries. Four patents-Americau, Euglish,French and Belgian-will secure an iaventor exclusipe monoply 10 his discovery among one hundred millions of the most intelligent people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at home. The majority of all patents taken out by Americans in foreign coantries are obtained through the Mining and Scientific Press Patent Agency. Haviug established Hgencies at all the priucipal Eurnpean seats of Government, we obtain patents in Great Britain, France, Belgium, Prissia. Austria, Spain, ete., with prumptuess and dispatch.

Models are not required in any European conntry, but the utmost care and exper cuce is necessary in the preparation of the specifications and drawingse
When parties intend to take out foreign patents, engraivingsshould not be published until the foreign applications have been made.
Caurion.-It has becoune a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caution the latter against heeding such-applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrast their cases to the care of a competent, reliable agent as nome.
While it is true of Most Eurupean conntries tbat the gystem of examination is not 80 rigid as that practiced in this country, yet it is vastly important that inventors should bave their papers prepared only by the most competent solicitors, in order that they may ataud the test of a searching legal examination; as it is a common practice when a patentee finds a purchaser for bis invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of irusted with valuable inventions.

## msderalda mining trens

Tee Untontilee Tunnel Co., which commenced work in February last are pushiug ahead vigorously. The Star sayo that this tunnel is not surpassed in workmanship by any other tunnel in the district. It is now in a distance of 375 feet. They have already struck four well defined ledges; the first of which will pay for working; the last one however which has been struck at a depth of 275 feet is a rich one in which free gold can be plainly seen. It is expected that this enterprise will bring to its owners a rich reward. It pierces the richest purtion of Last Chance Hill.
Tite Lawton Ledae, on Silver Fill has a shaft down to the depth of twenty-five feet. They have a lode about four feet wide.
The Stanford Tunnel is now in about 150 feet. The latest indications were that they were is close prosimity to a ledge. The workmen are now taking out rock of a bluish, green color, of a character which often lies contiguous to a silver bearing vein, and which almost invariably contains chloride of silver. This tunnel is bound to be one of the best paying enterprises in the district, its locatiou is particularly advantageous, being at right angles with all the rich ledges on this side of the hill.
The Enterprise Tunnel is about six hundred feet in length and running into Last Chanee Hill. Very recently they struck a ledge seven feet wide. The rock shows sufficiently to justify-as some of the holders think-a raise in the stock.
The Times says the Clan Alpine company has a lot of rock at the Brodie mill. and will soon know by actual practical illustration what it will pay.
Tre Koran Ledge on Last Chance Hill is having a prospecting shaft suok.
The Cortez Consolidation Co., on Silver Hill are sinking a prospecting shaft.

Rich, -Twenty-one tons of ore from the Aurora lode, one of the ledges belonging to the Real del Monte Consolidation, yielded at a late cru-hing $\$ 4,347$, being $\$ 207$ to the ton. The ore was not assorted. There is no danger that a mining district turning our large quantities of such ore as this, will ever fail to sustain itself.
The Union Foundry in process of erection at Aurora by Mr. Geo. W. Coffee, is nearly completed. The Times speaks most flatteringly of the completeness of this institution, and justly calculates on large advantages to be derived therefrom for that camp.

## The Pacific Mineral Compnay

$\mathrm{M}^{\mathbf{M}}$
Copper, Silifer, Tin, Nickrla, Cobalt, Zinc
Lead, and Solphurets contatning fold. Due acenunt tazken no all valnable metals enmlined
With siver and Copper Ores, snd advacces made there-
for.
Parties nwning unierelopet mines and तesiring capital
Parties nuning uniceroloped mines ant nosiring capital
to prosnect the sarne will recrive necistaner. if, upon exto prnsnect the same will recrive nesistnner, if, upne ex-
amination, such loade are deemed sufficient|y valuable to justify such expentiture

OFFFCE, No. 1. OnD FELIOWS' Hati,

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agrictlitural state fatr ALSO; FIRST PREMIUM At the Sun Francisco Bay Distriot Arrieultural Fair, 1863 Mantractory, moleksale and ritatr,
No. 44 Leindsiom street,
opposite the what Cheer House, San Franci

International Hotel,
facison Street, ------ San Francisco
[a few doors abnve Montyuancry-]
FIRE-PROUF BRICK BUILDING. Hoat convement to the
teamer's Landmg Business sts. \& Places of An
OPEN ALL NIG'I'.
City Railroad Cars Pass the Door.
REDUQTION IN PRLUES.
Fine Bathing Rnoms autaclicd to rhe Barber Shop.
Warm and Cold shower Raths Free to Gacsts.
THOROUGHLY RENOVATED AND NETLIT FURWid Air. Encli ruomi is furnished with a first qualit Pa euts. Ening bed and Harr naat tresses. The Iuterualiuiz al offers to guests the greatest number and

Best Furnished Family Rooms;
 Inm determiued that tre INTBRNATIDNA, shall be the perior to ony like establishmumt in the state, aurd shail aim $t 0$ merit a cintivuance uf the popular favor it hins
enjoyed heretofore. It will be conducled on Temperance enjoyed heretofore. It will be conducled on Temperan
primeiples

## Tremont IIouse,

 418 and $4: 20$ Jackson strect,$T$ IIS FINE, FIRE-PROOF BUILDING OFFERS MLANY indaantages to the trayeler for coll remence. It and about the same distance from the primeipal places Amusement.
The City Railroad Cars pass the Door.
The House is conducted no Temperance Principtes
which secures to odr guests qutet. The priees for board and Rooms are rery moderate-
by the day, meal or week. Wras shict a call fros all y the day, meal or week. We shlicit a call frond
F. E. WEYGAN1, Proprietor.

For the acenmmodation of my many guests I have 1 sea Hid refurmisheal the Inteksathanal Hotst, and wil wishing to put up at either house, may tabe the Termos or Internationad Hotel Conch and be taken to either Hunse with their baggage, Fres. F. E. WEYGANT.

NATHANIEL GRAV,
General Furnishing Undertaker,
641 sacramento st., Cor, of Weblb,

FULTON FOUNDRY \& IRON WORKS
HINCKLEX \& CO., mayupabturers of

## Steam Engines

Quartz, Fleur and Saw Mills; Cast Iron
Fronts, for Buildings, Mining Pumps, and all kinds of Machenery, Etc., FIRST STREET,
Between Mariebt and dibsox..............San Fraxcesco.
*** All kiuds of Iros axd Brass Castags furnishen

 D. B. Hinckley. War. E, Worts. Wx. A. Fiend.

## LEWIS COFFEY AND RISDON,

## STEAM BUIKER AND SHEET IRON

Tho only exclusively Builer Making Establishment on the Pacific Coast Owned aud conducted by Iractical Boiler Makers. Alcorders ior New Work, he repairing
of Old Work, excouted as orderod, and warranied as to quality.
Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisen, Cal LEWIS COFFEY J. N. RISDON.

To Mining Companies about to Incorporate.
JOHN ARMSTRONG,
Conveyancer,
610 iMerchant Street,
San Francisco
Is Prepared to draw witls Acerracy and Dispatch, Certificates of Incorporation-Trust Deeds and all other Papers,
neccessary to the correct Incorporation of Mining Cum


## R. W. FISHBOURNE,

PRACTICAL LITHOGRAPHER,
ENGRAVER AND PRIN'TER,
$\mathbf{N}^{0 .} 529$ Clat St., CORNER OF Lemidesnorff, fin Fraucicco, State and Connty Bonds, siock Cheeks, Lundseapre, Arclitectural and Marine Views
:itoww Curds, Livuls, Ete, executed with Meatness ald Show Cirds, Labuls, Ete, executed with Heatness and
dispalch. N. B. All orders in Criyon Work prumpty

## MINING.

N. B. Mining Stuck Gertifieates execuled with promt-
nekn and dispatcl, and nt greanly reducerl fatos in 6

MARTIN \& Co.,
OFFICE--.2R4 Montgomery Strcet, Up Stairs
WILL Contract for the
Purchase of Copper Ores,
Assaying 8 per cont andulupwards of Comper to the Ton
 an! NICKFJ. S. whe will be furnichefi gnd Freighte Paid on all cou-
sigumeuts if desired by the conwignors.

$$
\begin{aligned}
& \text { Henry Martin, J. F. Greeman, } \\
& \text { Stu Fruncisco Post Ofice, Bux 1:59. } \\
& \text { je } 1 .
\end{aligned}
$$



Manafucturers of Fire Proof Doors and Shutters, Buk Vauts, frating, (emplary 1 Rall
All urders from the interior Uregon, Washington place on the l'aconfic coast, atlended to with promptness and lispateh.

Mr. Sims Appreciates the Past liberal putronage of his friends, and trusts that he may
continue to ment it in the future.

For the Informatione. he watid sny that he feels confitent that lus exper ence in his marticular calligg is strpanssed by nolne on
thas const, wheh his superior work, sent to ahaust orery town in this state, Oregor, aliso Victorin and the Sand-
wich Ishands, and wo beern on sume of the hest buldings in sint Franciso, fully attosts. A large assortment
of secowl haml shuters fur sale at low rates. api3

## LEANDER RANSOM, Civil Engineer AND

SURVEXOR,
Having been counected with the puhlic works of the Stato of Olio for 20 years, aud the public surveys of the Stite of California for 7 years.

## ALSO

STATE LOCATING AGENT.
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Tweuty per cent in cash and the balance on acrenit of several jears. Express Building, N. F. cor-
OFFICE, seond floor of Exple ner of Montgomery and California streets.
oc7 3 m

## 읒 <br> DR, H, AUSTIN, <br> DENT1ST,

## No. 634 Washington street,

Between Moutgomery and Kearay, (over San Francisco
I hare recently recoived from London a Now and
Beautiful Vuls nite (Tullia Rubler) for Articial Tecth
Beautiful Vuls nite (Tullia Rubler) for Artificial Tecth,
which sfirs superior to auy other ever ues. It silitht
cleanly and durable and of a natural color. The cheap-
 est and best materimi for temporiry (and in mayy cases)
permanent sets. All operations thoroughly performed,
ibud at rcasonable prices.

## To Mining Companies.


 all completc. The boiler has 5 lues, is 24 fuct lugg, 40
inches in diamoter, made up from the bet three-cighth
inch Low Moor Iron, and weighs abont 5000 pnonds. Botn Eugrine and Boiler are in perfect order and fully
suarauted. Apply to guarautecd. Apply to I. HT. HAM, No. 211 Clay st.
San Francisco, June 1s, Is03.

D E S K S
Office Furniture,
OF ALL KINDS...... FOR SALE BY
JOHIN WIGMORE,
No. 423 Calffornia Sre, San Francisco
OFFICE JOBBING, of all Kiods, attended to

PALMER, HANSCOM \& OO,

## GOLDEN STATE IRON WORKS,

No. 19, Fixst Street, San Erancisco,
Furnish Castings and Machiuery of all kinds

Genuine White Iron Shoes and 11ies. palmer, hanscomb \& Co.

## To Quartz Miners.

Is.nox's Improved
AMALGAMATING PAN
PALMER'S PATEN'R S'IEAM CHEST. The above combivation siecures tie nos any luwces shaw known.
 citching of sloating zold and silver, bhown to be other wise Jusl Madu exclusirnly

Nos. 19 \& 21 Frst Slreet, Ban hrancisco
The public are informed that Letters Patent hare bret ranleil the undresigned u!nit Stwam Chest Finke Bo are cantinged against making, buying, using or selling
he wime without his consent.
W. A. PDLMER,
T. C. Sanborn \& Co, stock brokers,
No. 630, Montgomery S'treet.
$\mathrm{O}^{\text {pair siver mining stute, }}$
GULED \& CURRY MINING STOCK,
chollar miving stock,
CALFORNIA STEAN NAYIGATIUN CO'S SLOCK,
BOUGFT \& SOLD.

## DEETKEN'S

Chemical and Metallurgical Works
On San Bruno Road, Islais Creek, san fbancincu.
Gold bearing sulphtirets workei at reat

 mill uwners. No power nor clean water required fic nor
hu purpose.

## W. T. \& J. GARRATT,

## City Brass and Bell Founders

B
ABBET METAL CASTINGS, FILE ENGINEY, FORC and Hand Bellse, Church and stomunat Bells, Tal and Hand Bells aud Conge, Hose absd all wher joint
 POEES, Irun steam pipe furnished with tithogs, \&c
COUPLJNG JOINTS OF ALE SZEs. Manufacturers of "G ratt's Patent Improved Joarnal Metal.
[HEODOR KALLENBERG

## Maker of Models

 FOR INVENTORS. ical Instruments, Scales, Woights,Reparing of Macliuery piromply atemperit to.
No. 458 . No. 418 Market strect, San Francisco.
MININGANDSCIENTIFICPRESS

THE I:AILROAD H () U S E.
Nos. His and tix Commercial anal Cluy s\%o,




The Roome are handsonely rurnashed,
 a Gortank: wers
 at price s to nut trie tithes.
The Ruil Le whilhuse Coach is always in attemitater at
 Pis Hown Free or Change.
The Honke ir cipel nall thgtat.

## HIRAM IVRIGIIT, PICK MAKER,

Hus cetalitishtoul a Murnufuctury for the Making of MIAER'S PICKS,
N(1). $1 \% 1$ IOST : 1 at




 gutel.
D. NORCROSS, Hunonic Temple, No. 6, Post Street. Military Gcods of all Descriptions. Nury Trimmings aud Embruideries.
${ }^{\text {RUKGALIA }} 17$ FOR ALL ORDERS.

## 35l.err.

MILLER \& COLEY, Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

ALL KLNDS OF STOCK AND MINING Business arrenact disputch
20117
REYNOLDS'
Patent Cut-0ff and Governor, FOR STEAM ENGINES.
127 at these Invaluable Machines, ATE NOW IN USE
Io Californin aud Nevada Territory, giviug a perfectl? Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Goveruor  <br> Clark'sSteam and Fire Regulator,

For contrulling tho Iraft or Blast by opeung the Chim.
ney wr Yire in the Blash Ppe by the pressure of the
 sud ayy perssun eun put onic up iu an hour after the doum-

## Ingersolls Patent Drill Press,

 With whech drilling ean be doue the samu as with theoomumon radict, nud when small holea gre wanted, it

Felt for Steam Boilers, Pipes, Eto."
Steam Engines, Boilers, Pipes, Hydraulic Presses, Sluftiug, Pulleys, Etc., at the lowe Anti Incrustation Powder,


L. A. Booth, Ess., Virgiola City,
and 2,ooo others in the Thited States. No E. T. STLEEN Agent

ASSAYS!
Promptness and Accuracy Secured
By the: Line of the Mont Inhmuind
Mrathuls uk
A NALYSIS!
Advantageons 'Termes fur Prospector's Clubs und Miniby Cumpanies.

## J. H. CHURCHILI, N. A.,


FRENERTCK MANSELL,
MECHANICAL \& ARCHITECTURAK
DRAUGITSMAN.
No. 2tad Califoruia sireet, enther of Levtatorif Drawinge of Vomple made for

New Style of Ladies' Buckle!
W, BOHM,
Inventor and Patenter.
THe slrmeribel mavivi ortanempinters pat-

$\qquad$

Ustrinesw, Streugthan Appesianee.
 His Buckle at the Jewelry litathanhinent of
 118 I survet, sactrmanto,
Every Buck lo solk, stamped "W. Bohm," will be


WILLIAM BRODIE \& CO.

## CALIFORNIA FOUNDRY

## Fremont Street, neur Market, Sual Francisto.

Light and Heavy Castings,


## Giffards Injectors,


 Sond for a Circular
je22 Cor. Pino nad Front Sts, san Francisco.
I. C. E. KLEPZIG \& CO.,

## GUN MAKERS,

DEALERS IN GUN MATERIALS,
7a3 Washington strcet, San Francisco, fone Door abovo Kearney strect.]
Repairing done in a workmanlike manner at the shor-
est molice. Gildulig, and also Silver Plating, by E. Ekland. Je21

## BAUNCHEIDTISM,

## The Presfrver and Producer of Life.

THe LrFect or bauncheiutism as A Memiod or earing aisense, is a Thit necompli" in medicine,
 Curnipryn is founded ol a rational, sceicutitic bnsis. Iralysis in couseguence of Apoplexy, Podagra and Fhenmatisnm sf every deecrption, which kind of compluiuts call fint thnir nuly rulier ty inhe thove mothod Kisp a inlly can it baiphlicel suceossfully, in the spring
of the year to disease ol tho cye of the year to diseases of the cye.
Dr. Burebert is the muly ductor in Califorbia who bas
 of thet be is perfect master of the Inter.
DR. J. C. BORCHERS,

No. 19 Kearmy strect, nad No. 4, Mavk's Plato, Firs
story, No. 5 . Umice bours from 9 to $11 \mathrm{~A} . \mathrm{M}$. , and I to

THIE<br>BRYAN<br>BATTERY



## ALONE STANDING THE TEST.

Thiw, with the Impravequenta whels Fxperlence hu ouly relinble

## METHOD OF CRUSIIING ORF.

 to combino all the improvernents which the exioriorco

## EXCLUSIVELY ADOPTIED

hy many of the most prominent Minikg Compause in the


Effective, Substantial and Reliable.
Thry ara now extensively "sed thronglant the



These Milla ure constrinetud almonet ontirely of Tran,
 and drywe nrathuwh re,
BOTH WET AND DRY ORUSHING,
and are warrantell to reduce, with the same weight o
Stampe, 25 per cellt. more rock than niy other mill it
use. Fuch Batury is emanlect in itself, and forms

at subuegnt time hilus preeerving the symetry and
uniformity of the 3ill
Asan pyilence or tho incrensing Parar with which these mills are regarded. wo would montinn that the
Celebrated Colebrated Onhir compmay hiret introdnced thom int their works in 1880 , and have heen adiling a number on
Batterior, each subsiqulient your, until they now have Nineteen, rupniug seventy-six Stataps,

They nre prfectly fitted nud set upht our Works, be-
ore shippiug, cach pieco being marked nad numbered, ore shipping, mach nieco being marked and numbered,
Bo that they can toe put up) ani sct at work in ton liours after arriving no the ground. They are malle on two si-
zes, four tund five Stamise melh. Tho Four Simmp

 cast in sections, when devireci, so
packed over any mountain ruad.
We annex the names of, few well known Companien Who have adnpted them-running from frur to seveuty ve stamps eacl-to whom rofereaco is mude

Ophir Mining Co., Washoe Valley,
San Marcial Co., Mexico.
John D. Winters \& Co. Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co., Ti, ginia City, Tajo Mining Cu. Mexico, Sheba Miniug Co... Iumboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co... Owen's River, Enion Quartz Co., Anrora, Triunfo Mining Co., Mexico, Napa Quaitz Co., Aurora, Petaluma Quariz' Co., Gold Hill, Francis Mellus \& Co..Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Cobo, Hews, Howe de Oo., Rich Gulch Flat, F. A. Benjamin \& Co.. Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smith \& Clonser, S. F Reduction Works Amagoza Mining Co., San Bernardino,
mandfactured only by
GODDARD \& CO.,
At the Pacific Iron Works. SAN FRANCISCO.

## Virginia chty mining temms.

The brest \& Bel.cner Co., recently purchased and paid sin,000 for a private residence whicls they found in the way of working their gromid. The improvement will be moved off. Noue but a rich company can afford to puy such prices for the remuval of incumbrances.
The Stock Books of the Buena Vista Company having heen destroyed ly the fro which cunsumed the lioncer Foundry. The Company will re-unite their stock in lithograph.

An assay of ro k from the Athens ledge, near Carsun, showed $\$ 3,550$ in gold and $\$ 1150 \mathrm{in}$ silver. The company are within filty or sixty feot of the ledge with their tunnel, and will striko it about 100 feet below the surface.
Staces ir,-The laborers in the Colden Gate shaft have struck water, at a depth of three huodred and wenty-nive fect. The Company will commence drifting west immediately. The Golden Wedge Company, which, iu connection with the Golden Gate Company, suuk the shaft, will commence drilting eust.
P. M. S. C O.

PACIFICMAILSTEAMSHIP COMPANYG road with the stumers of the Athutio und Hacelio
Steamsilin Company at Aspinwall FOR PANAMA.

The following Stenmships will be dispatghod in the
month of May, 1863 . Aug. 3d, - - - - Steamor Orlzaba.
Ang., 13th, - - - Stonmer Golden Age.
Ang. 23d, - - - Steamer St, Louis.

Will latuve Follsom Street Wharf, with Passengers and

And connect, via Panama Ruilivod, at Aspiuwall, with Fon Finetgat or pusfago, apply to
Jo4 Corner of Sacramento nud Lusidesderty sts.

## Wm, P, TAAEFEE,

importer and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francigco.

## D. MORRIS, MACHINE SHOP, <br> 227 Market, corner of Beale Street.

Menufaturer of
WARRANTED FIRE-PROOF SAFES Selininimik, of nilk kind male to orddr. All kinus of
je13

## REMIOVAL.

O FFicte OF THEEPACIFIC METAL
 Gold and silver ore, nad Sulphuret Assayers', or shl vorsmitha' sweepmas roduced or purchased. COPJ'LR OBlei-Highest market rates advanced in
S. C. BRADSHAW, deent. ash, for shipments, S. C. BRADSHAW, dgent,
509 sacrumento strent, nmr Sinsome.

## OALIFORNIA TOOL WORKS !

## John Weichhart,

## All Kinds of Edge Tools, Etc.,

Pane frons Mouldiug Iroos,
Stovo Cutter's Tonls, ete
No. 22 Fromont streot, bot Market and Mission,
jy 20


## TO MINING CONIPANIES !

Offices To Let. SUITES OR SINGLE ROOMS,

Government Block,
N. W. Cor. or Sunseme and Washiugton sts.

VULCAN IRON WORKS COMIPANY,
P. Torquet, Manager,

STEAM ENGINE BUILDERS
BOILER MAKERS,
Iron Founders and General Engineers,
No 137 \& 139 First street, San Francisco.
Pumping, Hoistiog, Mnning and Quartz-crushing Machiuery.
Shoes and Diee of the hardest iron,

High and Low Presure Boilers of all Styles.
Josvil and other Turbinc Water Wheels with latest improvements.

$$
\begin{array}{ll}
\text { eeo. } 4 . \text { maftalir. } & \text { D. S. mutchasson. }
\end{array}
$$

METCLAF \& HUTOHINSON'S
PHOTOGRAPHIC GALLERY,
c50 Washington st. Throe doors belov Kearny.
Having reftied the above rooms the Firm are now prepared to furnish the public with a superior stylo of
Piciure, at a lower price than ever before offered in the elity. CARD PICTURES. As we have every facility for producing these besuti-
ful pictures, in all heir dififent varieties, we have reful pictures, in alt

## \$3. Per Dozen!

Large sized Phatographs $\$ 3-$ Extra copies $\$ T$ each.
ASiBROTYPES in all Styles aud prices.
or, PICTURES copied with care nud accuracy, in any stylo desired. Particular attontion puid to pictures of
Cbildren. licetures painted in oil or Water Colore, and retouched
in India Iuk by a competunt urtest. in India Iuk by a competeut urtest.

Napoleon Copper Mining Company,
Capital stock.................51,620,000.

2,z00 shares-- $\$ 600$ Per Share.
Length of Lead 2,700 Fect; Location of Mine, Gopher
Distict, Calaveras county : Incorporined
Dist ict, Calaveras county: Incorporuted
October 3,1862 .
President
Trcusurer
(MacRenisk

F. MACCRELIISH OR TRUSEES.
A. J. Molemers of A. J. Mesulder \& Co

R, G. BKOWN, of Gruver \& Baker S. M. Co,
R.C. ALDEN, U.S. Conmissary Department,
J. W. TUCKFR, of J. W. Tucker \& Co.
J. W. TUCKER, of J, W. Tucker \& Co.
W. A. WOOWWARD, of Alta Cillitorlia
W. A. WOHDWARD, of Alta Califorlia,
S. E. HOLCOMBE of Holenmbe Brothers.
S. E. HOLCNAN. Secretary California Pioneers,
W. I. DUNCA.
A. W. HASKELL.
office of compary
420 j
$\mathrm{j}+29$
San Antonio Gold and Silver Mines,
loter californla
FORWARDING \& IITINGG AGENCY
SAMUEI, SMITH,
OFFICE-Northl Weest Corner of Frout and Clay

N
 resident Agent at San Antoum, ond iuformation furnished regarding any claim., in that Territory, ou Com
mission. mission

> FOR SALE.

P
Russin Irnn Quartz Screnns for Mulls
Purtans, both Frume and Lift;

 Costing Shres and Hea ing Stoves;


We are also manufacturers of the

## UNFQUALLED

## MONITOR COOKING STOVE

Or RANGH, For Hotels.
To which wo call particular attention.
Je-20
TAY, BROOKS \& BACRUS.
MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths,
Mission, betwéen Beal \& Fremont Sts, San Fraucisco.
N. B, All kinds of Boiicr and Sheet Iron Work ese cuted ut the shortest uotice, and on the most reasonublo terms.

## L. F. LELAND,

## STOCK BROKER

No. 621 Clay street,
 Member of the San Francisco Stocls and Exchange Board

Mining and Stock Exchange,
Mining Stocks of All Kinds Bought \& Sold.
Busincss connected with Mining Stncks of every descrip-
tion promptly and cunidentially a attended to. *** Abstracts of Titles Furnished, Etc.

## AGENCY

## For the Purchase and Sale of

MEXICAN MINING STOCKS
 Califurnia. on compance, Ant Antonio district, Low All persons are ia
the abnve mives,
a anne miues.
H. C. KIBBE, MINHVG SECRETARY, Commissioner for Nevada Territory, 542 sacramento st., cor. Monvgonery

(abmory hall.)

EXCELSIOR IRON WORKS,
Between Silksou and Pacilic, Sum Franciseo. GALLAGHER \& KENNET, Mathuficturers of all biluls of Architectural and Ornamental Iron Work Bank aud Stme Vaults, sition hhors, Smuters, Bu-
cony, dreal aul Cemesery linlinys, Giates, stairs, cony, Areal aul Cemesery Ralings, Gates, Staits,
Eitc, aud afl kinds of Brack smilhing anil Jobbing done with prompthess, and at Reasomable Pricer,
Orders trom the country promptly attended to. je13

APARTMENTS.
F URITAED APartyetve mith, or without
 lione will do well to apply

## E. C. DAKE,

 DEALER INCLOTHING,
Gentlemen's Furnishing Goods; also
HATS, CAPS, ETC.
At the New Yoric Cloteing Store,
541 d 543 Wrshington st. Montg'my Bilk
E. T. PEASE, R. S. CORNING, SAM'LC. BOWLEY

PEASE, BOWLEY \& CO, Real Estate, Stock and Exchange BROKERS, 021 Montgomery street, San Franciseo. Legal Tender Notrs and Mining Stoces, BOUGHT \& SOLD.

PUMPS!
HARRISON'S
California Lift and Force Pump, without talves or packing,
Suitule for Mines. Fire Fingines. Wrecking or Trigat.
ing this st th. Clueupest, Lightest and most purahte
 nud leass
conted,
ver

ALI SIZES; Capable of tirnaning frim one huxneed to FIVE
THOUSAND Gallons per Milunte-Fur sule by C. H. HARRISON, Phenis Oil Worrs,
$\qquad$ 517 Front Street, Sun Francisco.

## Ṅvew Bedford Copper Company.


Sheathing Copper;
Brazier's Copper
Copprer Bolts;
Yellow Sheateing Metal;
Copper and Composition Natls;
Which they offor to the Trate at the lowest market
rate, and un the most favorahio terms. MoNE \& Co

108 Fruv

IMPORTANT!
To Mining Companies, Mriners,
Prospecting Parties, Commanders
of Ships, \& $\mathrm{C}_{1,}$ \& $\mathrm{c}_{1,}$ \&c.
THE UNERSIGNED HAS RECETVED DESICATED AND COMPRESSED
VEGETABLES,
Of Mesars. CHOLIFT \& CO., PARIE, which be offers now
for sale in inta th suit For cale in ints to suit.
These Veretables being perfectly fresld and swect, are
the best preventive of scarrey and other diseatets result
ne frum the continuel usis an ald ug from the continuell use of sath provisions.
They aro alreads cleuaed and prepsumb for conking: are perfectly preserved, and uffer great advantages for transpartation. 25,000 rations being packed in the sinuce
of one square yarra, while 2,000 ratiuns- fre equat tol, 000

aug 3 No. 215 Frout street,

Offices To Let, In the Governnent House, Corver on Oficens, the most commodious and arcessilble in the city.
C. $A$. CRJNE, l'ruprietor

Eye, Ear and Throat.
DR, DE CASTRO,

## Oculist and Aurist,

WHO HAS PRACTISGD IN NEW such unrivalled success, aud from cach phace is in pusser.
 to their permanent cure. Deafness of loug standing tho-
roughy curcd. The Ductor eaplogs his (by the Midica

## Self-acjusting Artificial Tympanum,

For the relief of denmers, attended by les or injury of
the membrana tympni, and for the cure of discharge the membrana tympani, and for the cure of divecharge
from the cur- hic invintion of ne Castro, M. D. nuthr
of to Deafuess Practically Illustrates as to its Nature and of " Deafuess Practically Illustrated as to its Nature and
Treatment," etc, The aelf-adjusting Artificial Tympanum was first introMuced to the notice of the grofescion at the mecting of the Medical Society of Londnu, ou the 20th of November
1863 . An animated diacussion consued in the reading on the paper, and several members of the Snciety hrre teati-
mony to the succeas of the remedy and the imyortance ol mony to the success of the remedy and the importance of
the original discosery. Mr. Baker Brown (member) bore teatimony to the Self immense bentit a young lady friend of his had received from it, She was in fact, quite deaf, sud In a mont mias-,
erable siate; the effect of the tympminm was instuntane. erable siate, the effcct of the tympninm was instuntane-
ous-quite like a mirucle. Five more ceatimonials frum ous-quite like a miracle. Five more testimoniats rum
Members of the Mectical College, Now York, nud tho pria-
cipal citics or Eurone Operatiug Rooms, UNION BLOCK, corner of Market and Kearny streets. Entradco on Market street.
with deuf. Editor-Raving been afficted Wita deufness for the hat two yeara, originating from a moset excrutiating pins in wor il was oling frim ta down excrutiating pains in my ear, I Was nibliged to crma reconnendation to wait on Dr. Do Castro, on the corner of Kearny and Market atreets, and underwent one nimaratina
aud it is with the utmost pleakure I can say my heariag was suddenly and withont pain ontirely restored. I deem
it my duty to make this krown to the bublic, and to re commend Dr. De Castro's skill as an ruribt, Naps Vally. Jame. Calloghan, witness,
San Francisco, July 30th, 1863.
[From the Dally Alta-]
san Francisco, Juve 30th, J863.
Ed'rs Dajly Alta vour widely circulated jnurnal, to
 has beet a member of tho Dead adid Ilumb Jnstitute since it was nrganized. On whking her to Dr. De Castro, on tho
corner of Kearncy and Jarket Sircets, and undergoing ubcorner of Kearncy and Market Strects, and untergoing un-
der his direction, twn operatinns, she lase heard snumds der his direction, twn operatinns, she hak heard anuads
very distipetly ; and is now, I am lappy testate in a fair
way to get permaoent relicf. The risult, thus far, is sasistactnry; and I deem this notice due ta Dr. De Crastrof for his skill; and would recommeod all parties similarly nf.
flicted to give him a trial My dalighter has at different flicted to give him a trial My lallighter has at differen
times been nnder the care nt the most skifful phyyseiaul
and aurists in Califoruia, but up to the perind of risitio Dr. De Castro, received no hemp Cit.

812 Green Street

## IIINING CERTIFICATE LOST!

Certisite for Ten Shares, No. 33, dated July The finder will be nuitably rewarded by leaving it a room 24. Government Bluck.

LOUS EDWARNE.

## CHARLES GEDDES,

ARCHITECT,
Cor. Montgomery and Bush Streets,
Over the Mercantile Library Ronma.


EDITOR.

## REMOTAL.

The Office of the Mintigo and Scirntific Press, has been removel to Rooms Nos. 56 and 57 Government House, cor ner of Washingtun and Sansome Streets. We bave been indnced to make this change of location, not only with the friew of securing mure room and better accommodations for forselves, hut chiefly to better accommodate persons haviug pasiness with the office. Our location is now central, easy Sf access, and in the direct way of the chief travel of the city to and from the Post Office.

## ON FLUXES.

This subject is one which has been brought before the pablic of San Francisco, this week, by several of our conttemporaries, und one flux which has been rariously described, us "a silicate of cadmium," a silicate of manganese," and a siliious deposit containing animalcuke," has been considerably anded for copper-Roasting, or sometling els in addition, or as a pri liminary, being omitted, or not, according to the judgment of the operator. Amid all the mystery this sppears to contain, we have been shown copper, melted then this "flux" (?) has been used conjointly with another. We have also seen battons of copper obtained whern "prefious knowledge of smelting ${ }^{13}$ was employed, and where, herefore, something tangible besides this flux was probably uit in the pot. These are the only anthentic cases of sucless we have heard of. We know failures abound. One of |he'successful manipulators admits that it is not applicable ior use in a cupola. In contrast with this, we cite from a ecent paper by our rising chemist, Prof. Joy of New York, fie following beautiful application of scientific knowledge to bis subject.
In treating beryl, to obtain glucinum, "One part of beryl ras fused with three parts of fluorid of potassium; and difested in sulphuric acid." He adds: "If this flux could be btained in sufficient quantity, the method would be preferabe to all others, as the mass fuses easily, the fluorid of silcon is driven off at a gentle heat, and the potash alum rystalizes readily, carrying down all of the alumina, thus t the same time accomplishing the decomposition of the filicate and the separation of the alumina and glucina."
Grological Position of tie Vhins of Precious Metals N Wasmoe and Reese River.-The Rcese River Reveille aays:-The mines of Washoe are in syenite, porphyry, and ther granite rocks. Reese River presents one series of hines in granite, as about Austin City; another in metamothic shales, as in Smoky Valley and Big Creek. The Comet ein traverses slate. The heaviest masses of native metallic filver have been found in veins traversing slates; and; on he other hand, the large masses of cholride found in South america have been the product of veins in metamorphic limeone. Oxyd of silver is a rare ore, but is occasionally met ith in Mexico and South America, and in the veins about ustin. It is mostly found in veins traversing granite."

## [cumnusioatei.)

Mr.Edrror :-"A Poor Chemist" will find the properties of Iydrochloric acid wheo used in qualitative analysis fully Corespandents from Esmeralda report large quantities of men of ling ling around the mines, bening large shipments of man of the Royal College of Chemistry, London. You may'bullion duriag the approaching Fall and Winter. A lack of rest assured. Mr. Fditor, that I will not mislead yonr nnmer- facilites for crushing keejs this treasure back fur the present onr readers in describing to them the tests for metals. Did A correspoadent of August 2d writes:-
time permit me, I would naswer "A Poor Chemist" more fully, and ere I complete these papers I may fall upon him again.

Fron El Dorado Countr. - We have been shown some very good auriferous rock from the Batic and Harman ledges of Placerville. The Baltic, at a depth of 25 feet, is produc ing rock which yields twenty-five dollars per ton.
The Hoffman at a depth of 75 feet is producing 35 dollars to the ton. It is believed that these ledges will rank second only to the New York mive, of that vicinity.

Tar Newsom Gold and Silver Mining Company is located half a mile from Silver City, and is the north extension of the Bnckeye. The Company have sunk a shaft on the ledge to a depth of seventy-five feet; and are taking out about two tons of puy rock per day. The ledge is six feet wide, stendily increasing in width and richness. There are now out about 40 tons of quartz which the Company intend to crushed at one of the adjoining mills, the proceeds to be used in developing the mine.
Sulphor.-A large field of Sulphur has recently been dis covered, near the Lassen Meadows on the Humboldt. It covers some sixty acres, from one to three feet thick, so far as explored, but it is thought that further explorations will develope its still further extent beneath the surface of the ground. This discovery is a very important one, to that dis trict of country, as it will afford an abundant and cheap sup ply of the raw material to the sulphuric acid manufactory now about going into operation near Carson City. This fao tory, alone, will consume about one ton of su'phur each week. As the mines are opened up other factories will soon be required, and an enormous quantity of this material will be needed soon.

New Mining Sutis in Washoe.-The following mining suits were commenced in the District Court at Virginia City on the 19 th and 22 d inst :-Heiss vs. Woodruff et als., to recover thirty-seven and a half feet in the Belcher claim, Gold Hill. Patrick Keenan vs. H. Harris \& Co., to recover the sum of fifteen bundred dollars. A. S. Olin vs. Samuel Welch-attachment suit. Joseph Barnet vs. J. H. Mallett to obtain an injunction restruining a suit in the Civil Probate Court by defendent against plaintiff, for possession of a store on C street, adjoining Wells, Fargo \& Co.'s. Potosi Gold and Silver Mining Company vs. Junction Gold and Silver Mining Company, to obtain an injunction restraining the Junction Company from working on ground claimed by the Potosi Company.

The oluest newspaper in the world is printed at Pekin, in China. It is upwards of 1000 years old.
"The Del Monte has a large amonnt of quarte out, but is not working now. The Pond is in the same position. The Utal is hard at work, and has some 60 tons of ore at Gregurg's mill to bo crushed. From the kind on hand at the mine, the chances are that it will yield largely. The Western Summit has une of the finest openol mines I have seen; the rock looks fine, and the Company will have a crushing so soon as the Ural rock is worked. Burlington ledge looks well, is clearly defined, and free from all "entangling alliances." The shaft is down about forty feet, and is being worked day and night. The Clan Alpine, in the same vicinity, looks well; 16 tons of their ore crushed last week at Bodie's mill yielded $\$ 86$ per ton. Work on many other prominent claims remains pretty much as at my last.
In the town, building is going on steadily, and by winter time we shall have a number of as fine brick buildings as can be found east of San Francisco. The wnather is warm, and the general health of the inhabitants is good."
The Croesus, owned eutively by Mesars. Cralle and John-' son, on Last Chance Hill, is down to the depth of sixty feet, and the rock increases in richness as they go down. The gold is plainly visible in most'every piece of the rock assorted for crushing. Twenty tons have been sent to the Pine Creek Mill to be crushed.
One shaft of tho Antelope is down 140 feet. The rock all the way down increasing. in richness.
Su, ver hill consolidation keep men steadily at work taking out ore and developing their mine. The Brodie mill worked a lot of their ore recently-the yield of which we have not yet ascertained.
According to the Times, the Howard Company have struck it rich. A ledge has been found which surpasses any ledge that, has yet been found in any tunnel in Esmeralda District. The work of running through the ledge is progressing, and fronr present appearances it will take several days to work throigh it: The thiniel is in a distance of three hundred and forty feet, and is now in the mineral range and liable to find valuable ledges at any time.
There has been considerable talk about Bodie district within the last few weeks. From all accounts, the ledges and claims there are large and well defined, clear of all dispute, anid, so far as opened, rich.
The Bamboo has nearly completed its air shait, and rich developments are looked for, daily, in that mine. The Crockett is taking out large quantities of fine ore, and will soon have another crushing. The last lot of 80 tons yielded about $\$ 80$ per-ton.
The Ural Company has ten men steadily at work taking rock from theis vein. At the depth of 120 feet the vein is 7 feet wide with the rock improving, as the workmen descend.

## THE MINERS' LABORATORY.-NO. XIII. <br> SILVER.

Fahlerz, (Grey copper,) lustre metalic, steel-gray, iron black, dark red, rather brittle ; specific gravity 4.5 to 5.2 .
When heated in an open tube it yields fumes of antimony sulphuric acid, and sometimes arsenic. Before the blowpips on charcoal, decrepitates, emits the smell of burning sulphur, deposits a sublimate on the charcoal, and melts easily into a steel-gray slag, which is usually magnetic; and with borax melts into a gray metalic globule of copper.


Occurs in beds with talcite, chalite, quartz, in veins with galena, blende and baryte.

Freislebenite : lustre metalic, steel-grey, streak the same, brittle, specific gravity, 6,00 to 6.38 .

Before the blowpipe on charcoal deposits a sublimate of oxide of lead and antimony, and yields a globule of silver which sometimes imparts the color of copper to borax.

|  | analysis. |  |  |
| :--- | ---: | ---: | ---: |
| Silver, | $\ldots$. | 23.76 | 22.81 |
| Lead, |  | 30.08 | 30.00 |
| Iron, |  | - | 0.11 |
| Copper, |  | 1.22 |  |
| Antimony, | $\ldots$ | 27.05 | 27.72 |
| Sulphur, | $\ldots$. | 18.71 | 18.77 |

Occurs in crystals, massive and disseminated.
This is a very rare mineral, and is found in veins in gneiss with galena, antimony, pyraryyrite, pyrite, chalybite, caleite quartz.

Proustite; red silver, (in part,) lustre adamantine, cochineal red, carmine red; streak, aurora red, cochineal red; slightly sectile; specific gravity, 5.5 , to 5.6 , decripitates when hested ; melts easily before the blowpipe on charcoal, yielding sulphurous acid and a strong smell of arsenic, leaving a brittle globule, reducible with difficulty to pure silver. Partially soluable in nitric acid, leaves a residue of sulphurous and arsentous acid.
analyats of the mineral proustite.

| Silver, | 64.67 |
| :---: | :---: |
| Arsenic, | 15.09 |
| Antimoney | 0.69 |
| Sulphar, . | 19.51 |

Occurs in attached crystals, botryoidal, massive, diseminated and investing with other minerals, in veins with arsenic and ores of silver.

Miargyrite-Lustre Adamantine, fracture imperfect, conchoidal, opaque, blackish lead-grey, inclining to iron-black and steel-grey: in thin splinters blood-red by bevy sectile. Specific gravity 5.3 to 5.4 .
analysis of matrgyrite.

| Silver,... | 36.40. |
| :---: | :---: |
| Copper,. | 1:06. |
| Iron, | $0 \cdot 62$. |
| Antimony, | 39.14. |
| Sulphur, | 21.95 |

Hanthocone.-Fracture anchoidal, uneven; transparent, translucent; orange-yellow, brown, streak the same but darker. Brittle; spacific gravity 5.18 to 5.191 .

|  | $\begin{gathered} \text { LYSIS. } \\ 1 \end{gathered}$ | 8 |
| :---: | :---: | :---: |
| Silver, | 64.18 | 63,88. |
| Iron, | 0:97 |  |
| Arsenic, | 13.49 | 14.32. |
| Sulpur, | 21.36 | 21.80. |

Tes various machine shops in New York, according to a recent calcalation, employ about 7,500 men, and have all the work they can do.

## MINING PREMIUMS.

The "Washoe Agricultural, Mining and Mechanical Society," will present at their first Annual Fair, which is to take place, on the second Monday (12th.) of October, amone their largesi awards, the following important Mining Premiums :-
Class 13-For the best geological cabinet, best collection of ores, best exhibit of gold specimens, best exhibit of coarse gold, best exhibit of scale gold, best exhibit of flour gold, best exhibit of copper ore, best exhibit of iron ore, best exhibit of galena ore, best exhibit of cinnabar ore, best exhibit of coal, best exhibit of salt, best exhibit of alum, best exhibit of gypsum, best exhibit of petrifacation, best exhibit of lead, best brick of silver bullion, best specimen of east steel, best specimen of maleable iron, best specimen of rolled shafting.
Class 15.-For the pest plan of tumnelling, best plan of timbering tunnels and shafts, best collection of mining imple ments, best steam engine for hoisting purposes, best horse power for hoisting purposes, best derrick or whim, best dumping car or apparatus, best car track, best six tanneling shovels, hest six crowbars, best six drills, best six sledges, best machine for tunneling by motive power, best quartz carrying wagon.

Class 16-For the best arranged and most complete quartz-crushing mill in the Territory, 2 d . best quartz-crushing mill in the Territory, 3d. best quartz-crushing mill in the Territory, best quartz-crushing machine, 2d. best quartz-crushing machine, best set of amalgamating pans, 2d. best set of amalgamating pans, best amalgamating process, 2 d . best amalgating process, best india rubber machine belting, best leather machine belting, best anti-friction journals, best şelf-oiling boxes for shafts, best brick machine.

## THE EMPLOYMENT OF STEAM.

The "Journal of the Franklin Institute" gives the following useful and practical ideas upon the Employment of Stean. They will be read with interest by the mechanical portion of our readers:-
Hioh Steam.-It is well understood in the world of practical engineering, and is confirmed by correct theory, that it is much cheaper to make high steam than low steam, from the saving in fuel to produce equivalent power, the improved condition of heat convection in the boiler contents, the comparative losses by external radiation, and the resultant increase, by superheating. $* * * \mathrm{Up}$ to a certain range of heating ( 5500 ,) iron boiler-plates increase their strength, while below a certain tension, which is far within the limits of ultimate strain, a boiler is as safe from one pressure as another, in reference to the usual sources of danger from disruption and explosion, which rest so much on careful attendance. As a safety under working strain, we believe that there is little to be feared from steady pressure, even at ranges which may be called excessive, and we have slept over 180 and 200 pounds of steam, after some study of the attention of the firemen to the gauge-cocks, confident of as great salety as over one-fifth or one tenth the gauge.
Superbeating- Some positive means of giving all boiler steam the benefit of this process, should be adopted. Among all the extravagnt claims of enthusiasts on this subject, which have induced a general re-action, too much has been proved as to its benefits to be lightly disregarded, up to a certain moderate range of application; and by this we mean an application more distinct and more clearly defined than the ordinary process of superheating common to boilers with chimney uptakes or steam domes. If saturated steam, by the addition of from 7 to 75 degrees of heat, will be expanded from 10 to 30 per cent., as some experiments have it, and such increment of heat can be conveniently taken from the Wasted gases of combustion, there is great propriety in the application; and granting the special claim to be erroneous as to gain, if the steam can be fortified agrinst the steampipe, chest, and cylinder radiations and condensations, so as to show the boiler pressure on the indicator-cards, even this result is worth the slight cost of attaining it. In most of our engines, the losses between the cylinder and boilers are formidable in their percentage of coal waste.

Inproved Conduction.-It is urged by some authorities, and endorsed by experiment, that the use in boiler-flues of condacting-pins about 3 ins. long, projecting downward, into the heated currents, by presenting much more favorable points of heat transmissiun than the smooth surface of the Hue-sheets, improves the evaporation. The application is simple and is justified by the conditions of furnace-fine action.
Summary.-The general lesson taught by the diversified forms and operations of boilers, and the principles of their action, is, that the great majority come far short of available natural results, from imperfect design and management, and that the simpler forms are practically and theoretically to be preferred.

Tre largest cask in the world; that was, has had its light diminished. That of Heidelberg has now a rival in a cask rec ntly made at Dover, England, Eight conples danced on the top. The cost of this mouster cask was Two Hundred Pounds sterling.

Union Mine, Russ District.-The following extract a letter from a correspondeut, at the Union Mine, Russ I trict, should have appeared several weeks since. Its de has been caused by the letter having been accidentally n laid. The writer had just arrived in that regiou to ti charge of the above mentioned mine. He writes:-
"The day following I visited the Uuiun Company's M (Eclipse Lode) of which I had engaged as Superintende, and was agreeably surprised at the Champion like appe ance of the same, and especially at the strong indications near the surface, of its becoming, in depth, productive. may say that I felt a little proud, at the disappointment; when hearing of the time in which this mine has been in eration without any satisfactory results to the owars, I mo er expected to have seen a lode of delicate promise, inste I was not long in forming an opinion that the canse of delay of "glad tidings to the proprietors," was owing to scratching at surface, instead of developing the mine depth. The Eclipse is a regular and well defined Lode, has in its component parts all the prevailing characters the most productive ledges in the State, and will, judg from present appearances and the vast amount of grol the Company claims, at no distant period, stand promil in the Share List.
The work on this Lode is confined at present to the si ing of an incline shaft, and driving a crose cut tunnel. B are being operated on day and night. In the incline lode is 10 feet thick, bat at present, to facilita'e its sidk there is only 6 feet of it from the foot wall up being carr most of which is so strongly impregnated with gold thr have recommended the Company to forward as many $p$ for working the same in addition to our stamps, as the gine is capable of driving. The remainder of the lode i present more adapted for silver and from the upper part i. by no means difficult to break blocks of mineral of 500 weight, much resembling in appearance the Sheba. Aft little further sinking in the shaft, we shall commence driv tunnels each way, on the course of the lode, sinking in mean time. A cross-cut tunnel is now being run to in sect the lode at a depth of 300 feet under a portion of vein, where, for a cousiderable distance, the croppings li remarkably well, and show much gold."
The writer of the above speaks encouragingly of the mi generally in that region, as well as the Owen's River of project.

Learn to Forge Your Own Tools.-Many mechan says the Scientific American, have an idea that after $t$ have mastered the more legitimate duties of the worksl they have learned all that is necessary, and can undert anything in their line of business. Machinists particul are prone to this error-a common one, by the waythink that a knowledge of fitting and turning, once acqui makes up for all other deficiences. In reality, the self-sty inished mechanic is, paridoxically, the unfinished one; he who acknowledges his short comings, and tries to con them by obtaining all the information he can, will acqui more thorough knowledge of his profession. Comparati few machinists are competent to dress their own tools, ádeed, handle the blacksmith's hammer on any work. I many times such knowledge would have been invaluable leave individuals to decide from their own experience. simple weld which they were unable to make, a faculty dressing chisels without putting their own eyes in dange striking the anvil instead of the tool, would assuredly he stood persons ignorant of such details in good service 1 time of need. Apprentices who go to the tool-dresser bave the edges of their chisels or other instruments ren ed, will do well to observe the process and inform themse of it, instead of throwing coal at the helpers or otherit conducting themselves in an unseemly manner. Obse sion and experience are twins and inseparable, and no yt or indeed any adult can hope to attain eminence or $p$ ciency without paying some respect to the matters he alladed to.

Ir is said that tobacco smoke blown into a wound is is almost infalible cure for the lock-jaw.

Gratitation bas been beautifully defined as the outsp d and of God forcing all things into their place and kee, $g$ them there.


Memont Streot, neur Market, San Frabclico.

## Light and Heavy Castings,

ASSAYS!
omptness and Accuracy Secured By tue Úse of tie. Most Improred Methods of
ANALYSIS!
vantageons T'erms for Prospector's Clubs and Mining Companies.

## J. $\mathbf{H}$ CHURCHILL, M. $\mathbf{A}_{\text {, }}$ (Hioss ectrupe,

${ }^{24}$ foverument Rlock, Corper of Sal

## BAUNEHEIDTISM,

## Parserver and Producer of Life

He fryect of batwchentise as a metron or coriug ieweso isa "mait necumpin to mevieino Hinm alr:ully with an extriordinary patronage, and soknowlorlged by ail mon of sclence that Bat

 find thedr cinly rellef by the alnore mullowh. anecially can it bo applied successfully, in the eprlag 10 year to diseases of the eye. oripital merlea of Dr. Batsechribr and his origina
Dr. Borchera la also in pmsempon of original ietture the inventor of the methol by which be can prove he in perfece master of the latter,
. 10 Kearney atreot, add No. 4, Minrlin BORCHERS. S. No. 5- Omec hours from 0 to 11 A . M., and 1 to

## I. C. E. KLEPZIG \& Co.,

## GUN MAKERS,

## DEALERS IN GUN MATERIALS,

3 Washington street, San Francisco fone Door above Kearney strect.]
epairing done in a workmanlike manner at the shor |ldiag, and also Silver Plating, by E. Ekland. Je21

## Giffards Injeotors,

OR SUPPLYING BOLLERS WITH FEED WATER wilhnut Pumps No Mill or Maning Company ond for a Circular.

DAVID STODNART, Agent. Cor. Pime and Frout sts,, San Erancisco

PATRONIZE home manuracturies!!!

James Longshore, frunk and Valise Manufacturer, ises, Whulesale and Retail, Five Sole Leathor Truuks, 18ce, and a fine asmetment of LADIES TRUNKS conpaty on hand. Trunks covered aad repaired.

## Now Style of Ladies' Buckle!

W, BOHM,
Inventor and Patentrg.
HE SUBSCRTBER HAVING OBTATNED LETTERS PATistruction of Ladies' Buckles, 18 now ready to fur-
is the same in every variety of atyle. This buckle fresess geveral very inportantimprovemonts over any
the in use.
he invontion having been carefully examined at the ont oftec, has been adjudged to bo a useful improve lixt, and Letters Patent bave beco granted for 17 y ears. ixcells all other buckels in
Userulness, Stremgth and Appearance. he Public is respectfully invited to call and examin | Buckle at the Jewolry Establighmeat of BRAVERMAN \& LEVY,
621 Washington Street, San Francisco O21 Washington Street, San Francisco.
JOSEPH, BROTHERS,
607 Montgomery Streeet, San Francisco. FLobigh \& CONRAD,
FLreet, San Francisco. 118 I Street, Sacramonto.
Agents for the Patentee. Very Buckle sold, stamped "W. Bohm," ${ }_{t} 17$

## THE

BRYAN BATTERY.

The wat intereat involved in the reduction of orman

 clasa of Macthury, aull it in a fact well tumwn in all Who have had any practical experiwace th the mather,
that overy new proergs devoloped during the mast twelve
 Stump Buttery

## ALONE STANDING THE TEST.

Tula, with the imprevemonts which Experlence has augrestrat. is
only rollable

## MYTHOD OF CRUSHING ORE.

Tife Bryan battrat, na now comatructed, is belicved to combime ati the imirrovementy which the experierce
of the pat has afforded. They have been

## EXCLUSIVELY ADOPTED

by many of the mort prominent Sining Companies in the country, ned have hewn, for the three phat years, sub-use-and in evory case bave been pronounced

Effective, Substantial and Reliable.
They arc now extensively used throughont the minernl regiona of Californil, Nevada ana bexicn, and have ratniblished a claim to public confilience, never ye
equalled in any plisco of mining machinery.
These Mills are constructed almost entirely of Iron, and, censequently, ara notaffectol by the intenso beat tied. They are adapted to
BOTH WET AND DRY CRUSHING,
and are warranted to reduce, with the same weight of
Stamps, 25 per cent, more rock than any other mill lu Stamps, 25 per cent, more rock than any other mill iu
use. Each Battery is complete iu itself, and forma a use, Each. Dattery is complete iu itself, and forms a
perfect mill - while any number of them can bo added at a subseqent time-thus preserving the symetry and uniformity of the Bill
As an evidence of the incrensing favor with which those mills are regarded, we would mention that the
Celebrated Ophir Compady first intronnecd them into Celebrated Ophir company first introdnced them into
their warks in 18d0, and have been adding a uumber of their works in 1860, and have been adding a number of
Battories, each sulsequent year, until they now have Ninetoen, running Seventy-aix Stamps,

They are perfectly fitterl and net upat our Works, bo ore shipping, each piece being marked and numbered so that they can be put up and set at work in ten hours after arriving on the groumd, They are made of two Ri-
zes, four and five Stamps each. The Four Stamp
Ratery weighing complete about 8,000 nounds, and the Five Stamp about 7,000 . The Mortar Bed theing cast in sectinns, when desired, so that the mills can be packed over any mountain road.
We annex the names of few well known Companies Who have adopted them-running from frur
ave stamps each-to whom reference is made

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexieo,
John D. Winters $\&$ Co, Esmeralda,
Crown Point Coo, Gold Hill,
Potosi Mining Co., Virginia City, Tajo Mining Co. Mexieo,
Sheba Mining Co... Humboltd.
Lotta Mills Co., Coso
American \& Mexican Co., Mexico, San Carlos Mining Co.,., Owen's River, Union Quartz Ca., Aurora, Triupfo Mining Co., Mexico, Nаря Quartz Co., Aurora, Petaluma Quartz Co., Gold Hill, Francis Melliss \& Co., Slate Range, W. R. Cburchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co... Mexico, O. J. Parker \& Coo, Niearagua, Gibhons \& Clayton, Esmerilda Smith \& Clouser, S. F. Reduction Worliz Amagoza Miniog Coo., San Berrardino,

MANUFACTURED ONLY BY
GODDARD \& CO., at the Pacific Iron Works. SAN FRANCISCO.
os 125 to 136 Firat atreet, and 126 to 144

John R. Sims,


Oregon atreet, botwoen Wrahinghon and Davis and From


## $\mathrm{M}^{\text {a }}$

anuracturexs or Pire Proor Doors and ingt, All arikers from the thturfior Oregow, Waxhingto place on the lacilic coast, attonded to whith promptaps and dispateh.

Mr. Gime Appreclates tho Paet Ilberal patrnnage of his frbenda, aud trusta that he may
contiaus to merit it sh the futures.

For the Informition of Etrangers bo wonld xny that ho feels conflitent that hals exper eace in hik particular cathug in aurpassed by nono a ry town in this stute, Oreken, nlao V'ictorin and the Sani
 jugs in san francisco, fully attonta. A harge assortmen
of second band shuttera for sale at low ralas. apla

## LEANDER RANSOM, Civil Engineer and

SURVETOR,
Having been connected with the public work of the State of Ohio for 20 years, and the publi surreys of the State of California for ' years.

## ALSO

state locating agent.
And as such baving the asile of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,95$ per Acre.
Torms-Twenty por cent in cash and tho balance on a credit of several years. ner of Montgomery and California streets.

## D. NORCROSS,

Military Gcods of all Descriptions. Navy Trimmings and Embroideries.
${ }_{17}$ REGALIA FOR ALL ORDERS.

## E. C. DAKE, dealer in

## CLOTHING,

Gentlemen's Furnishing Goodsj
HATS, CAPS, ETC.
At the New Yore Clothing Store,
541 \& 543 Washington st. Montg'my Bik je] Old No. 145.

## FOR SALE.

Patent pressed russta iron mining pans. Russin Tran Quartz Soreanf for Mills; Portable Forges; Cauldron Kettles
Pumps, bort Frame and Luft ; Pumus ,ipot Rubber Hose ; Wrought Iron Pipe ; Bubb Cocks; Coupliugn ; Play Pipes;
Cowking Stoves and Heating Stoves; Couking Stoves and Heating Stoves;
Tin Plate: Shect Irnn ; Sheet Copper Fin Plate: Shect Irou ; Sheet Coppor
Lruit Cans of Varinus Kinds ; Lard and Butter Cans of all Sizea;
Iron Wiro Brass Fire © Copper Wir
Copper Rivets and Burrs Copper Rivets and Burrs; ; Iron Rivets; Etc.
We are also manufacturers of the

## UNEQUALLED

MONITOR COOKING STOVE

## Or RANGE

For Hotels.
To which wo call partieuler attontion.

TAY, BROOKS \& BACKUS.

Tabathent of Auriperious and Argentiverocta Copprr Ores.-An improved mode of manufacturing copper from ores has been provisionally specifed by Dr. T. Fleitman, of of Iserlohn, Prussia, according to which the copper ores are first ground to powder; then one part of such powder is roasted dead, and mised with the unroasted portion, and the whole is smelted with a suitable flux, such as silica or the slag of a previous process. The smelted mass is run into water, and the product ground to powder : and the process repeated until the resulting sulphuret of copper is in the desired condition. The sulphuret of copper obtained is ground to powder asd roasted dead, then moistened with an alkaline solation. The oxide of copper is sabjected to heat to melt the alkali, but not the oxide copper, which is then well washed in water: the product obtained is mised with powered carbon, and then melted.

New Salt Mines.-The bark Carib has lately discharged a cargo of salt at this port, from the mine known as Oje de Liebre, at the head of Scammon's Lagoon on the Pacific side of the Paninsula, Lower California, lying in latitude 28 degrees $10^{\circ}$ minutes, and 114 degrees 50 minutes longitude. This mine is of great extent, and inexhaustible. The beds from which the sult is taken are ten inches to five feet in thickness, and continually forming.

More Gold in Canada--We hear from Canada of the finding of an abundance of gold on the tributaries of the River Chandiere, about fifty miles above Quebec. One nugget weighing 20 ounces of pure gold was picked up in the bed of one of these streams. Another, weighing nine ounces, found near the same place, was sold in Quebec. The news has of course created a great excitement, and people are flocking in crowds to the spot.

UNION
IRON AND BRASS FOUNDRY.

H AVING ADDED TO THE SEVEREAX Establishment js now the moat Extenpive and Complieto of any on the Pacific Coast. Thy undersigued are prepared to furnish, at ahort no-
not tice, Loconotive, Murine and Stationary Engines, of ev
ory size and description.

## BOILERS.

Lncomotive, Fluo, Tubular, Upright and Cylinder, Furuishect with or without ongines, cumplete.
Machinery and Casting of ovory desorption, Saw-
 QUARTZ ORUSHING BATTERIES Embracing a grent variety of Stamp, Mortar and Cam
AMALGAMATING MACHINERY,
Varoey's Improved Patont Pans and Settlers, Wakely Paus, Amallananting Tubs, Plaisted's Grindera, Chilo
Mills, Concontrators, ere., etc.

## MINING PUMPS.

Cornsh, Lift and and Force Pumps, from four to ight feet stroko, with Pipes, Bob Mountings, and Gearing complete.

## HOISTING DRUMS.

For Sharts or Inclines, with clutch, friction or $\bar{V}$ cones. Sole Agents and Manufacturers for the Pacife Coast, of C. and \& G. M. Woodward's Celobrated Patent Saloty All Contracts and Ordera
All Contracts and Ordere executed with promptneas je21 je21 Washoe Correspondonce.

[^8]
## NON-DIVIDEND PAYING MINES VALUABLE.

The list of companies which we gave, in our Supplement exhibits a degree of activity in mining matters, never witnesed be fore, either in Califormia or any other country. We notice, on the part of many of our cotemporaries, a disposition to look upon this remarkable movement of organized capital as a matter of almost entire speculation. It is admitted that the stock of a few of the leading companies like those located upon the Comstock ledge, is valuable; but that outside of those, there is little else than "wild-cat." "Wild-cat speculation" is said to be the chief business of those engaged in getting up these companies, and nine tenths of the mining stock in the market, is pronounced "good for nothing except to excite the hopes of simpletous and thereby rob them of their money."

That there is a moiety of truth in the above may be correct, but we are not willing to admit that there is any adequate ground, whatever, for the sweeping charges which are so frequently brought against those engaged in the general mining operations of the day.

With many, all low-priced stocks are looked upon as "wildcat;" but with that deffinition of the term, there can be no medium between "wild-cat" and legitimate, divilend paying mines. All mines, with now and then a notable exception, must go through a process of development to ascertain their full value. There are certain indications upon or near the surface of every mine, well known to the experienced miner, upon which deductions of a favoralile or un unfavorable nature can intelligently be made; and upon these the miner must determine his course of proceedure. As the work of development progresses, these indications are more or less favorable; and of course the price of any particular stock meets with corresponding fluctuations, untrl such a time as the mine is fully developed, and becomes a regular, dividend paying institution. The price of sook is thereafter graduated by the amount of dividends which it can be made to pay.

The fact that thousands of mining companies are being organized at the present time, is simply an evidence that there are that number of promising lodes of mineral in the country which are worth prospecting. Any person who has kept himself posted in mining intelligence for the past few months, must be aware that within that time, an ulmost illimitable extent of valuable mining territory has been opened $u p$ to explorers, throughout the entire extent of which mineral cropings and indications of most undoubted value have been found. When a vein is once discovered, it is usually found to traverse an extent of ground upon which from four or five to adrzen or more companies may be eligibly located. From forty-five to fifly companies have undoubted locations on the Comstock vein, besides a large additional number who claim such a location, but which may eventually prove to be upon side veins or spurs. The marvel is, under the circumstances, that there are not more, rather than less companies now organized. The plan now so generally adopted for prospecting and developing the mines is p-rfect ly legitimate and equally as advantageous to the capitalist as to the miner. Ordinary precaution, only, is needed to guard reasonably against "wild-cat," operations.
A most erroneous opinion appears to be entertained, with regard to the value of non-dividend paying mines. The impression appears to be that if a mine, after a small expeuditure for development, does not pay a divide:d upon some fictitious value which its locators have seen fitto plăce upon it, the same must be abandoned as worthless. Of course the original stockholders in such an adventure are lousers; but if they can secure one first class mine out of a dozen ventures, the successful one affords ample remuneration for the failure of the eleven. But even the eleven are not lost to the community or State. According to the usual average of mining chances it is safe to calculate that at least five of the eleven will pay the ccotr of working, after they have been opened at the expense 0 the twelfth; and by a wise provision of all our local mining laws, if a mine is abandoned by its original locators, for a certain specified time, any other person, who may choose to do so, can come in and work it-so there is no probability of any mine lying idle which will pay its mere working expenses.

A mining community may grow up and flourish, even, in a neighborhood which does not possess a single dividend paying mine. To illustrate, we will take one of the princi-
pal mines in Washoe:-The Ophir, iu order to pay its present dividend of $\$ 48$ per foot, must yield $\$ 140,000$ per month about one half of which, or $\$ 70,000$, goes to pay expenses. Now it is quite evident, on a little reflection, that two mines, each employing the same number of men as the Ophir, but which are so poor as to barely pay the expense of working, are collectively worth more to the State in an industrial point of view, than the fabulously rich Ophir itself. Why? Because the too mines yield not only the same amount of bullion with the Ophir, but they also give employment to twi.e the number of men, at the mine; twice the number of foundrymen and machinists are employed to keep their works in repair and they draw twice the amount of supplies from San Francisco, that the Ophir does. Hence two
 share on Montgomery street may be actually of more value to the State and city than the famous Ophir which is valued to-day at $\$ 2,500$ per share! It is a fact, which to be known, needs only to be euquired into, that not one quarter of the aines in the State, whether placer or quartz, incorporated or private companies, liave ever paid a dollar over and above a fair rate of wuges to those employed upon them ; and yet, the State has cuntinued steadily to increase in wealth and population. San Franciscu has maintained a steady, onward progress, values have been created all over the State, millions of treasure bave continued to go East, each month, and Californiu has come to be regarded as the mineral wonder of the world. The fact is, so long as our mines are free to the prople and will merely continue to pay wages, just so lung, will California grow and prosper and San Francisco continue her onward progress.
We apprehend this is a view of our mining interest which is seldom taken; yet it is legitimate and correct, and furnishes a most convincing argument against the senseless tirudes of the croakers who are continually prophessing baukruptcy and ruin as the result of the present "mania," as they term it, in mining operations. The fact is, mining has but just been commenced. The immensity of our mineral developments is fairly overstepping bo hour population and capital.
Everything was just upon the point of ruin three years ago becanse they were paying $\$ 1,000$ for the Uphir, $\$ 400$ for the Gould \& Curry, $\$ 50$ tor Chollar, and less even for Hale \& Norcross, Potosi, etc ; while, as for such"wild-cat" mines as the Yellow Jacket, Best \& Belcher, and a score of other mines of acknowledged present value, they were mere schemes "to excite the hopes of simpletons and thereby rob them of their money." The croakers of those days now wish they had been "simpletons" then. Let the croakers of to-day learn wisdom from the past.

Tef Nelson Copper Mine.-The proprietors of this mine, which is located about six miles above Lincoln, on the. Nevada road, are making preparations for vigorous work in the way of its thorough development. A contract has been completed with a party for a quarter interest in the mine, to put up a 20 -horse power engine with the necessary pumping and hoisting apparatus. The claim consists of 2,000 feet. The usual croppings of carbonates are found upon the surface, and considerable native copper occurs at a depth of about 27 feet. A shaft has been sunk to the depth of 70 feet, with most promising indications.

The Netiton Mine.- This mine is now raising a large amount of very superior quality of ore. Of the 600 tons of ore which went forward by the Mary L. Sutton, this day week, as noticed in our last issue, 200 tons were from this mine, though not reported at the time. This mine has been shipping about 100 tons of ore per month for the past seven months. But little is said about it, from the fact that it is conducted by a private company, who are satisfied with doing business in a quict way. It is one of the most valuable mines in the State, and we are pleased to notice the progress of its development, as additional evidence of the increasing value of our Copper interest.

Lrature.-Dr. Bourne, a well known citizen, gives a free Lecture, every Friday Evening, at Dashaway Hall. Ourcotrmporaries speak favorably of these Lectures. They are pronounced both interesting and instructive by thuse who
have heard them.

## THE NEW SOUTHERN MINES.

Most extraordinary reports continue to reach us from the new mines in the San Francisco Mountains. These mines are located on the Agua Frio river, about 300 miles in an Easterly direction from San Diego. They have already boen prospected for an extent of 150 miles, throughout which extent, it is said gold is found everywhere. There is sufficient water for domestic purposes and for stock, and for mining with rockers only, but nôt fur slaicing or even for a tom. This is the report of prospectors who have recently gone over the country. Of course, when the rains set in the water will be more abundant. The climate is represented as being unsurpassed. Plenty of grass and timber; valleys Inxuriant, water in them to be found almost everywhere by digging a few feet.

## THE MINING SHARE MARKET.

A fair degree of interest has been manifested in Mining Matters during the past week. The "Mining Roll" hus ma. terinl y lengthened, and about the usual number of "Organizations," have been completely according to the $r$ quirements of the Incorporation Act. During the week we have published a list of $969 \mathrm{lncorporated} \mathrm{Mining} \mathrm{Conpanies}$, have their places of business in this city. Were the list complete it would, in all probability, exceed 1200.
An important feature of the week has heen the sale of the New Almaden Quicksilver Miving Company for the round sum of $\$ 1, \frac{5}{2} 0,000$. Payment is to be nade to-morrow. The negociation hus been conducted by telegraph. This sule will put an eud to the vexatious litigation in which this mine has been so long envolved, and will place beyond peradventure any further interference with the working of these mines, whose regular yield of quicksilver is of the utmost importance to the entire minir ginterest of the State.

Ophir Shares opened at $\$ 2,425$. The sales of the week reached 288 shares, at rates fluctuating between $\$ 2,425$ (a) $\$ 2,525$, and closing at $\$ 2,420$. The fluctuation has been owing to the uncer'ainty with regard to the approaching div. idend-operators being in doult as to whether the Company. after failing tn declare a dividend for last month, will be able to increase their dividend for the present month to their former standard of $\$ 72$ per foot.
Gould \& Curry shares have declined considerably during the week. Twelve shares only have changed hands since our last report at $\$ 4,750$ @ $\$ 4,775$. A dividend of $\$ 150$ per foot was declared on Wednesday. At the close of the week these shares were offered at $\$ 4,550$ without takers.
No transactions are reported in either Chollar or Hale \& Norcross.
Potosi shares have declined about $\$ 75$ dollars from last week's quotations and are now quoted at $\$ 900$ (a) $\$ 950$. They have been considerably sought after at $\$ 950$ on 30 days, hut cash is demanded.
Sierra Nevada have not been so much sought after as last week. They have declined somewhat with light transactions. They are quoted at $\$ 93 @ \$ 100$.
Daney shares have been largely dealt in at rates greatly fluctuating. Salcs of 1140 shares are reported at $\$ 100 @$ \$144. [The week previous 597 at $\$ 105 @ 150$.$] These trans-$ actions have been produced by variable reports from the mine, which is flooded. Much uncertainty exists as to the amonnt which will be required to put it in good condition again, which sum must be raised by assessments.
Buckeye has not attracted so much attention as for the two previous weeks. Sales of 283 shares at $\$ 34$ to $\$ 40$, closing at a slight advance on last week.
Burning Moscow is again attracting attention, at considerable advance. Sales of 202 shares are reported at $\$ 80 @$ $\$ 1081 / 2$. It closed the week with a firm market, at $\$ 105$ - \$20 improvement on dall sales of the previous week.

Savage. Transactions in this stock still continue light, and at declining rates. Sales of seven shares are reported at $\$ 3,300$. This Company has just declared its first dividend (payable to-day) of $\$ 50$ per foot. It is understood that \& balance of $\$ 35,000$ is retained for the purchase of winter supplies. \$80 per foot is confidently expected hereafter.

Overman, for which $\$ 510$ was bid at the close of the provious week without finding sellers, found buyers at $\$ 650$, early the past week, after which it declined to $\$ 465 \overline{\text {, closing }}$ at $\$ 475 . \$ 85$ better than the lowest bid of the week previous Seventy-two shares have changed hands duritiog the week.

Bultimore A merican has heen largely dealt in at remarkably tluctuating rates. Saled of 807 shares are reported ut 41 ( 1 , \$110. Thuee shares opened at $\$ 80$, whaneed to : 110 un 'Theaday, fell to stan on IVeducstay, then recovered it 855 , and finally clused the wouk at $\$ 30$ with a weak market.

| We notice further sales as follows: |
| :---: |
| White and Murphy ... 10 shares $\$ 700 \quad$ per foot. |

Best \& Belcher . ...... 4 " 950
Hurnside.
Adriatic.
Fillorado
Pide of the West..
Bullien, Gold Hill. ncerne.
undy Bryan.
.. 60
5 (a) 516
trass Valley
Melones.
Uncle Sam, Gold Hill
leon, Gold IIll
Sierra, Gold Ifill.
Cnion, Gold Hill . Union, Russ District .
Spanish, No. 2 fiersome.
Fieho, Gold Hill ...... 12
Caledunia 'Tunnel Co. .
Have Ledge. .......... Ruanmline
Mina I'ricta, Mexico.
Great Western 'I'unnel 25 Sheba
lisnseralda stocks still remain comparatively quiet and are bat little enguired after.
Wide West is dull at $\$ 1321 / 2$; Silver Hill at $\$ 27$. Ural bas met with light sales at $\$ 210$.
Real del Monte has found buyers at $\$ 375$, at which figwre 25 shares have changed hands.
Pond has been considerably dealt in, the past week ; 201 shares have changed hands at from $\$ 2 \overline{5}$ @ $\$ 35$.

We quote further sales as fullows;

| Wide West. | 114 | 132 | (a) 146 |
| :---: | :---: | :---: | :---: |
| Silver Hill. | 25 | 26 | (a) 27 |
| Ural. | 5 | 210 |  |
| Nevada. | 20 | 18 |  |
| Falls uf Clyde | 98 | 41/2 | (a) $5 \frac{1}{2}$ |
| Josephine |  | 12 | (a) 12 任 |

Willow Springs
10
COPPER.
There is no apparant abatement in the Copper interest. New mines are constantly coming into notice, and the regular shipment from establisbed mines is constantly increasing.

The Newton mine, from which little has been heard of late, still continues its regular shipment of ores at the rate of about 100 tons per month.

The Napoleon still continues its usnal shipments, which appear to be limited only by the facilities for transporting the ore from the mine to steam naviga ion at Stockton. The daily reports from the mining Superiatendant are most encouraging, The lode is constantly improving. Two immense blocks of ore have been blasted out and raised from the main shaft, within a few days past, which will be placed on exhibition at the approaching fair at Stockton.

The Keystone is working a large force, and concentrating the lower grades of ore. Shares in this Company are held at $\$ 170$ per foot in Stockton, with $\$ 150$ offered.

Much interest is felt in the success of the concentrating machinery which is being put up by this company. Its success will add largely to the value of the copper intercat, not only at Copperopolis, but also in all other parts of the State.
'The Camp and McNulty Copper Company and Hughes claim are said to be pregressiug well.

The Josephine Company, is about contracting for 75 feet
of tutueling, which it is believed will bring them to the Napuleon lute.
There is a large amount of prospecting heing doue in the vicinity of Cu , peropulis, with most flattering indicutions of succes.
The Campo Seco Mines are repurted doing wrell and before the season clusps it is thonglit ore will be arain shinped from the Lancha Plana, Lono Star and Campo Seco Comfunies.
The Lanch Plana Company are turning out some excelInat rock. The Campo Nece Company have built a splendid water wheel on their clains for the purpose of pumpine out the water and raising the ore. The Lono Star Cumpany have struck pajing ore. There are several other claims which are reported as doing well.
Fifty-five tons of ore from the Well Lead, Nevada county, arrived at Sacramento the past week, in transitz for the Antioch Smeltiug Wurks. 'I'his is one of the earliest cupper mines opened in that acetion of the State, and it is expected the mine will, hereafter, bo able to ship that amount weekly, which amount will be gradually increased to fully a huadred tons within a few months.
The Home Company, located, if we mistake not, in El Dorado County, made their first important shipment of 20 tons of ore to this City during the nast week. This oro is to be shipped to Swansey by the Pacific Mineral Company of this City.

We have nothing of special interest from Butte or Dol Norte counties.

Consideruble attention is being directed to the copper mines of the Colorado. Some very valuable discoveries are reported most conveniently located for shipment down the river. A party in this city assured us, the past week, that he had assayed ore from sixteen different lode within a few days all from that region, none of which fell below twenty-five, and from that up to eighty per cent.

|  |  |
| :---: | :---: |
|  |  |
|  | ft 里 |
|  | T Value ${ }^{\text {coser }}$ |
|  | \Yonday. |
|  | inueaday. |
|  | \|Wedoesday ${ }^{\text {a }}$ |
|  | Thursday. |
|  | Friday |
|  | Saturday. |

## esmeralda stock list.

[Correoted for the Mlning and seleutific Prese, Auk. 25, 7802.]

|  |  |
| :---: | :---: |
| pino ................. 8410 | Lilly fule................ : 0 |
| Alnaur ................. - | 10, |
|  | arim byrult............. is $^{\text {8 }}$ |
|  | M.1................. $8^{8} 12$ |
| 310 | dis |
|  | 310 |
| хия.................. ¢ - $^{\text {- }}$ | Mckinstry Tumbel Co.... ${ }^{\text {d/ }}$ |
| 12, za, ................... $3^{6}$ | Stontu Chrleto, 1 uni |
| Beadir |  |
|  | Moust lifulty |
| 15 | L. |
|  | Mina Real |
| Bunthen (Van Hurn Dimi.) $3 \times 10$ | Muree |
| Bumbe mluf, No. I ......... 8810 | Nurth wil |
| Budie Blanf, xot. 2 ........ - ${ }^{16}$ | New camerulda |
| 13unker Hill............ $61 / 20$ |  |
| Buhapuarle, Tunnel | Nevarda, (Tum |
|  | U |
| ¢nmax................... -1 | 0 |
| ттиекин................163 $=00$ |  |
| capo |  |
| Can Alp |  |
| Du | Prime or dinu |
| Durgit.................... $=1$ - ${ }_{15}$ | Perur (troft tut |
| Enst Exsex Ex. Urai ...... - 10 | Reul Dul Moute........... 410 |
| Fixtelisior, Exellsiur Ihit.. - |  |
| $15 \quad 20$ | R"•d, Whito A Blu |
| Franklil, | Stumfurd Tamiel |
| Histarf | sehenetrady |
| Fallital, Cons | Straveery |
| Framlis of cis do...... |  |
| Great Enster |  |
| General Horker (Cui.)..... 2580 | St. Lwult |
| Gubural J.eksua.......... 13\% 14 |  |
| Garlibma | Tiger .................... ${ }^{8}$ |
| Gulded Hurvest .......... - ${ }^{\text {a }}$ |  |
| Wen Cross $\ldots$.......... 20.25 |  |
| Govurnor Eioymo | Ulion ${ }^{\text {a }}$ |
| Goldcu Ago............. - ${ }^{25}$ | 120 |
| Great Briain | Utar proper.............165 ${ }^{185}$ |
| "Gonten Eri" | Ura |
| Greenback. | Willatm Tell. |
|  | Whe West. |
| rd Tun | Warkiugtou, C |
| 12 | Wostern simm |
| Hermau Consul ......... - ${ }_{5}^{15}$ | X-ELIrenum Constantinople |
| nu Checty, Exe | "Ousolidated.......... 11 |
|  |  |
| Keney ................ -- - | Cortes, consolidatad. |

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign countries. Four patents-Americau, English,French and Belyiau-will secure an inventor exclusive monoply to his discovery among one huodred millions of the most intelligent people in the world.
The facilities of business and steam communication are such, that patents can be obtained abroad almost as easy as at homs. The majority of all patents taken out by Americans in toreign countries are cbtained through the Mining and Sgientiflc Press Patent Agency. Having established agencies at all the principal European seats of Government, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, etc., with promptness and dis* patch.
Models are not required in any European country, but the utmost care ond experience is necessary in the preparation of the specifications and drawiugse
When parties intend to take out foreign patents, engravingsshould not be published natil the fureign applications have been made.
Cavtion,-It has hecome a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. . We caution the latter against beeding such applications as they may otherwise fall into the hands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entrust their cases to the care of a competent, reliable agent at nome.
While it is true of Most European conntries that the system of examination is notso rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal examination; as it is a common practice when a patentee finds a purchuser for his invention, for the latter to cause such examination to be made before he will except the title.
It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and ability. Inventors should beware of speculators, whether in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions.

Tae Colorado River Trade．－Gentlemea recently from the Colorado state that busi－ ness along that river is brisk，in consequence of the extensive mining operations going on in that region．＇Three steamers are now ply－ ing on the river and another is in process of construction．The channel of the river is being sounded，with a view to patting on a still larger line of boats．Vessels clear from this port for the mouth of the Colorado，where they discharge their cargoes into the steam－ ers，which transport them thence up the riv－ er to the mines．It is anticipated that there will soon be shipped hither tull cargoes of copper ore from this rich，yet comparatively undeveloped region．

Tre＂Los Angeles Consolidated，Copper Gold and Silver Mining Co．，＂located in the Soledad Mining District，was incorporated on the 28th of January last，and have heen work－ ing since the 3 d of February，on the＂Miller＂ Copper Lode，with following results．This Company has also commenced running a tun－ nel on the Spence Native Copper Lode，on which they have attained a depth of 80 －feet． But little of the stock has been offered in this market，publicly，although a considerable amount has changed hands at faom $\$ 7$＠$\$ 10$ per foot．
Treasere from the North．－The Seirra Nevada arrived from Victoria on Thursday last，bringing down the handsome sum of $\$ 440,355$ ，in treasure．
This dust is mostly from the Bannock mines，in Idahoe．This arrival also speaks of a large yield of about thirty claims at Ca － riboo，which is reputed as averaging about $\$ 1,600$ each per month．

Tee Ophir Mine．－－The Virginia City Union of 20th August，says：
The new and rich vein struck in the Ophir a few weeks since continues to hold out well， a large ameunt of ore being extracted daily． It has been openee for a distance of fifty， and about twentp－five laborers are constantly engaged in still further developing it．A shaft is being sunk about fifty yards north－ west of the engine house，and a new and substantial track has been laid from it to the dump pile．A vast amount of earth bas al－ ready been removed by the new drifts．The ＂care＂still looks as if it were a lucky strike． Ore is not yet being taken from the lower mine．

## 50 lbs ．MLARINE and

Fire－Proof Paint， $\mathbf{M}^{\text {ANOFACTURED BY THE PACTFGG METALLURGGCAI }}$ Mom Works in this eity，tor Hullkand neck nf Vessels
 or Bottoms of Ships，it is equal to a coat of Stone，and quite equal to Copper，no wor

## DIRECTIONS ：

For Doeks of Shypa，use two parts Mineeral Paint，one part White Lead，miswrith Linseent（int
For Bottoma ol Vessels，use one part For Botromsor Vessale，use one part，ground salphur，
 of 80 fite each，or by the Pacific sde tallurgical Worke．

## 25 POUNDS FXRE－PROOF PAINT．

When used on Ronff，Buildings，or Fences，it is equan Fire Proof，and costing less than any paint．

## DIRECTIONS

HOUSE：－Mix three parts Miveral Paint wilt one part White lead，thin with Liusced nil：it a lighter color is ROOF ：－Five parts of Mineral Paint，one part white Lead；mix with Lisseed oil．Put ir thick on a tin Roo as one coat when properiy applied will last three years， G．T．Foveve，Superintendent．
WORKS，North Eeach；Offee， 509 Sac ramento st．，San Francisco．

## GENERAL NOTICES

## DR．E．AUSTIN，

 DENTIST，
## No．635 Washingion street，

Montgomery and Kearn
Baths．）
I have recently received from London a New and
Bebutiful Vulcuite（India Rubber）for Artificial Teeth， which is far superior to any other ever nsed．It is light leanly and durable，and of a natural color．The cheap－ at and best raaterial for temporary（and in many cases） and at reasonable prives．
je－29

## DESKS

Office Furniture， OF ALL KINDS．．．．．．FOR SALE BY

## JOHN WIGMORE，

No． 423 California St．，San Francisco office Jobbing，of all Kinds，attended to．

## SQUARZA＇S PUNCH，

FIRST PREMIUM T THE SACRAMENTO AGRICULTURAL STATE FAIR FOR 1862.
ALSO；FIRST PREMIUM
the San Francisco Bay District Agricultural Fair，186
Manefactory，wholesale and＂inetail，
No． 44 Leidsiorfi street， Opposite the What Cheer Houso，San Francisco．

CHARLES GEDDES， ARCHITECT，

Cor．Montgomery and Bush Streats，

Over the Mercantile Library Ronms， jy 20

San Francirco
FREDERICK MANSELL， mechanical \＆architectural DRAUGHTSMAN，
No． 422 California street，corner of Leidsdorif
Drawings of Mnokts mado foryparties applying for nat ents at Washiogton or London．

New Patent Agency．


The Patent Agency Business，
And would invite Inrentors and Discoverers on the Pa－ cific coast，who wish Dispatela as well as koonmen to call
upon us．We have an Experienced Agent at Washing top，which，together with our own experience of several
years，renders the cars，renders the
Mining and Scientific Preas Agency
The most desirable place to muke apulicalion for lever The most desimble place to make applicatiou for Letter Ofthre of the＂Hiwing and scientific Press，＂Room
No．57，Government Honse，corner of Washington sad Sausome streets，San Francisco．EWER \＆SMITH．
FOREJGN PATENTS OBTAINED By application at this onfe，Rorm 27 ．Goverament House
EWkR \＆SMITH，Solicitors．

## NOTICE TO INVENTORS．

Inventors wisbing to file Caveats should apply at this
Office，Room
Oillce，Room No．bi，Goverament Eluse．Terms moris．
ate．

## PATENT RIGHTE．

Patent Rights Bought and Sold， At the office of the＂Mining and Scientific Preas＂Agency
EWER \＆Ssilith．

JMPORTANT TO IN FENTORS．
Inventors who obtain their Patents through this Ofice can have their loventions illustrated and described in the enlumns of this paper Frkf of charge，they meroly furnikhing the eagravings．We are also prepared to fur－ nish engravings at reasoeable rates．Those whi do Dot
eare to go to the expense of havige engravings prepared care to go to the expense of having engravings prepared
can have their inventions fully noticed and described in can columas，free of charge．The free use of our col－
our
urnas to aid them in introducidg their ioventions to the urans to aid them in introducidg their ioventions to the
public will be found a most important advantage to in－ public will be found a most important advantage to
ventors．
EWER \＆SITTH．

## Offices To Let，

Tn the Gofermment Hoase，Corner of Officespthe mast commodions and acceal large suits o Offices the most commodious and acessible in the eit

GENERAL NOTICES

## HAYNES \＆LAWTON，

MPORTERS AND DEALERS IN
OROCKERY，
GLASS WARE，

## FRENCH CHINA，

Coal Oil Lamjs，Table Catlery OLOCKS ， Silver Plated and Britania Ware，环C．，ETC．，ETC． NO． 516 SANSOME STREET ［CORNER OF MERCHANT，］ San Francisoo．

## WHEELER＇S

 Amalgamating and Separating Pans It is acknowledged by all who have examined the prin－ciples and witnessed the operation of these Pans，that they are decidedly superior for triturating and amalga－ mating purposes to any other in use．
The manst important priaciple connected with the ope
ration of these pans is ration of these Pans is the sepration of the trituratio
procesa from th：$t$ of extrnctiug the amalgam from the process from the $t$ of extrnctiog the amalgam from the
sauct．The chief cause of luss of the precious matals uri ses from the passing off of the same in enmbilnation with
the quicksilver，during the proces of trituration，and in cienuing up By the intrulnetion of the Separating ran
to $f$ llow the trituration this luss is euticely avoided In to $f$ llow the trituration this luss is eutirely avoided．In
Warkiog these muchines there is no appreciable loss Warking these muchines there is no appreciable loss
quicksilver，und lieuce uune of the precious metaib．

Where these Pans have bcen introduced and operater by the sille of otbers on sands from the fame vat，the Wheeler Pains have uniformly gaiued a large perceutage parcentage io the amount of work performed，
Miner＇s Foundry，on First scen in in thily operation，at th
where al Miner＇s Foundry，on First s，reet in this city，where al 2016－tf ZENAS WHEFL．FR．

## Wm，P．TAAFFEE，

importer and jobier of
Staple and Fancy Dry Goods，
CARPETS，DUCK，ETC．
Cor．Eront and Sacramento strecta，

## San Francisco．

| REMOVAL． |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

NATHANIEL GRAY，
General Furnishing Undertaker，
641 sacramento st．，Cor．of Welbb， San Franctico．
aso．A．xtcants．
METCALF \＆HUTOHINSON＇S PHOTOGRAPHC GALLERY， 650 Washington st．Three doors belo Kearny．
Having refted the above rooms the Firm are now repared to furnish the public with a suppriur tatle of
Picture at a lower price than ever before offered in the city．Card pictures．
card pictures．
As wa have every facility for producing these boauti－ fol piet tres，，in all their different rarieties，we have re－

## \＄3．Per Dozen！

Large sized Photographs $\$ 3$－Estra copies $\$ 1$ each．
AMBROTYPES in all Styles and prices． OID PICTURES copieủ with care aud accuracy，in any atyle desired．Particular atteation paid to pletures of Children．
Pictures
Pictures painted in Oil or Water Colors，and retouched
in India Ink by a competent artest．aug．

## HOTELS

International Hotel， Jackson Street，－．．．．．．－San Francisco FIRE－PROUF BRICK BUUDING． Most convenient to the
Steamer＇s Landiog，Busiuess sts．\＆Places or Amusement OPEN ALL NIGHT
腸 City Railroad Cars Pass the Door．

## REDUCTION IN PRTCES．

## Fine Bathiog Rooms attached to the Barber Shoy Warm and Cold ahower Baths Free to Guesta．

MOROUGHLY RENOVATED AND NEWLY FUR－
aished this spring．Every Roon opens to the Light nished this spring．Every Room opens to the Light
and Air．Fach room is furnished with of first quality Patent spring bed and Hair mattreesen．The Interbation offers to guests the greatest nomber and

Bhat Furnishen Family Rooms； and sets as oood a table as any Hoisse in tho chity，
I tum determined thit the INThRNaromal shall he the most comfirtable，best regnlated，and in all respects at perior to uny like extablishment in the state，and shall
aim to merit a contiounce of the popalar favor it has enjinyed heretofore．It will be coruucted on Temperadce Priuciples．

F．E．WETGANT，Proprietor．

## Tremont FIouse， <br> 418 and 480 ．．．．．Jackson Strcet

［A few doors from Montgomery，］San Franciscu，Gal
$T$ RIR FINE，FTRE PROOF BUILDING OFFERS MANY only half a block from the Host Ufice nod Custom House and ubout the sume distance from the privcipal phaces of Amuserneut．
The City Railroad Cars pass the Door．
The House is eonducted en Temperance Pribeiples，
WHICH SECURES TO OUR GUESTS QUIET．
The prices for board and Rooms are very moderate－ F．E．WEYGANT，Proprietor．

For the acenmmodntion of my many gaests I have ha－ cariy on the two houses in coinection，so that Trnveler wishing to put up at either bouse，may take the Tremue or Iuteroanonal hotel Coach aud be hiev to cither Hula with their baggage，Frrte．

> F. E. WETGRNT.

## THE RAILROAD H O U s E．

Nos． 46 and 48 Commercial and Clay Sls．， San francisco．
н．т．felton

## PROPRIETORS．

The above House is a Fire－proof bnilding，with Granite Front，and kept on the European Plan，with hoard and lodging by Day or Weels to suit the convenjence of our
Patrons．
The Rooms are handsomely faraished， upplied with Patent Spriog Beds，and Hair Mattrancos， affording very snperior accommodetions for tamilies or single persons．
The Table is supplied with the best the market affords at prices to suit the times．
The Rail Road House Conch is always in attondance at the Steamers to convey passengers and their baggage to the Houme Free of Charge．
The Ennse is open all night．

## P．M．S．C 0.

PACIFIC MAIL STEAMSEIP COMPANY＇S Poad with the stamemers of the Atlantio und Paoific road with the steamers of the
Steamship Company at Aspinwall．

## FOR PANAMA．

The following steamshijs will be dispatchod in the month of May， 1863.

Aug．3d，－－－Stenmex Orizaba． Ang．，13th，－－Steamer Goldcn Age． Aug．23d，

Will leave Folsom Street Wharf，with Passengers and Treasure，for Panama

AT 9 O＇CLUCK，A．M．，PUNCTUALLY，
And connect，via Panams Railirodi，at Aspinwalt，with
teamships for New York．
For Freight or passage，apply to
A．B．FORBES，Agent．
Jef Corner of Sacramento and Loldesdorff sts．

FOCNDLIES \& MACIHNE SHOPS.
REYNOLDS
PatontCut-0ff and Governor, FUR STEAM ENGINES.
197 of thene Invulumble Machines, ARE NUW IN USE
In Callforuia sud Nuwadu Terrntwry, kiving a perfectly Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

 Clark'sSteam and Fire Regulator,

 Ingersoll's Patent Drill Press,
 Fed in for Stoam Boilers, Pipes, Etc.. Steam Engines, Boilers, Pipes,

 Refor to-sis $\qquad$
EXCELSIOR IRON WORKS, ris sansome strect,
Botween Jacksod aded Pacibic, Sun Francisco.
GALLAGHER \& KENNEY,
Architectural and Ornamental Tron Work
 Eic, and ail kious if Blacksmithiuk and Jo
Ordora trom the country promptiy attended to. je13

FULTON FOUNDRY \& IRON WORKS
HINCKLET \& CO.
mançantuikrs os
Steam Fngines Quartz, Fledr and Saw Mills; Cast Iron Fronts, for Buildings, Mining Pumps, and all kinds of Machinery, Etc., FIRS' STREE',
BetwEey Markgi and Misios.............and francisco.
** All kinds of Iron amo Brass Castras Purnished
at short notice. Every style of Finisung 10 Irou when
 D. b. Hingley. Wh. E. Worth. Wh. A. Fime.

MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths, Mission, between Beal \& Fremont Sts, San Fraucisco.
N. Bi All kioda of Boiler and Shect Iron Worke exc.
eated ai the ahortest Dotice, and on the most reasonable terms.

## P UMPS!

HARRISON'S
California Lift and Force Pump, wIthoet talves or packing, Suttable for Micea, Fire Engines, Wrecking or Irrigat-
ing. This is the Cheapest, Lightest and most Dorable, and least liablo to get out of order, of any Pump yet in-
vented, vented,

ALI SIZES;
Capable of throwing from ONE HUNDRED to FIVE
THOOSAND Gallons per Minute-For sale by
C. H. HARRISON,

Phœelix Oll Wores,
30-15
517 Front Street, San Francisco,

FOLNDRIES \& MACHNE SHOLS.
PALMER, HANSCUM \& CO.,
GOLDEN BTATE IRON WORKS,
Ne. 10, Firat givebt, san Eranciseo,
Furaish Castings and Machinery of all kinds

Genuine White Iron Shoes and Dige. palamer, hanscomb a CO.

To Quartz Miners.

## Knox's Improved

AMALGAMATINGPAN, witu
PALMER'S PATENT STEAM CHEST.
THE ABOVE COMBINATION SECURES TAE MOST any prueces gow known. By it ateal is meroniuced in the most effective and eco-
nomicul m an ner, while it is pecullurly adapted io the cutcling of loating gotd and sifver, kuown to bo other wiso lush Mado excluaively by bicher hinscom \& co.,
YaLMER. Nos. $10 \& 21$ Firse Street, Sun Francisco

The public aro loformed that Lotlers Patent have heen
grantud the undersigoed unnu Sifam Chest Falge Bot grantud the undersigoed unnu Siram Chest Falge Bot-
oons frot the finside of Amalgamatiug puns or Tube, nud

Jone P. Gallagher. ................ JonkPh ㅍ. Wered.
GALLAGHER \& WEED,

## BRASS \& BELL FOUNDERY <br> LOCK FAこTORY.

No. 125 First street, opposite 3iuna, next door bu Pacific
Fuundry, all kinds of
Brass and Compositnon Castings and Finishing, done with neatness and dispatch.
C Murch and steamboat belis, of all stzes
 in the best manner. Bank, Viult, Store and Prisou
Locka, atro brask Padincka and Shop Leeks of varioua praterills, on hand and made 10 ordier.
per Particulitr anteution given to casting Rudder Bra-

All Jobs promptly attended to.-Prices moderate.
Remuved from Oregon street, bet ween Front and Devis.

## Miners' Foundry

MACHINE WORKS,
First se, between Howard \& Folsom,
san franciscu.
$\mathrm{E}^{\text {VERY DESCRIPTION OF IRON AND BRASS MACcII. }}$
 stcam Euginer and Boilers, Flour, saw and Quartz mill machiuery, Mining Pumps, Amalgamator's, Retorts,
Etc.
Ele. Particular attention will be given to the manurncture of Mnchinery in Sections, designed for places of diblicult
ceens, Varioun models of Quariz Cruflers, Amalgamators and Water Wheels-some in operation and on exhi-
 amull quantilies will be aforded ample facilities, free

All parties desiring accurate and highly finished draw ings and Superinr Machinery, at most reasonable rates
are cordialiy invited to cull before coutraeting elsewhere HOWLAND, ANGEL \& KING San Franoisco, February 23, 1863.

## San Francisco Machine

## IRON WORKS!

Northeast conner Fremont and Mision Streets.
$A^{\text {LL KINDS OF MACHNERY MADE TO ORDER ON }}$ Sthrst reasonable ter mas. Low Prossure; Quartz
 miange ete, and Castings of all deseriptions made to order Steam Engines exchanged and for sale hy
REPAIRNG promptly attended to
FOR SALE.
One Upright Post Drill, Putaam's manufacture, San Francisco, July 1853

FOU NDRIES \& MACHINE SHOPS.

## VULCAN IRON WORKS COMIPANY

P. Torquet, Manager,

STEAM ENGINE BUILDERS

BOLLER MAKERS,
Iron Founders and Ceneral Engineers
No 137 \& 130 First street, San Francisco.
Pumping, Hointiag, Munag and Quartz-crushife Machinery.
Shoes cund Dies of the Lardent iron,
Russta iron Puuched Screena.
Steambont Srach inery ; Snw, Fluur und Sugar Mille High und Low brexure Boilers or all styles.
Jonral aud other Turbiac Wuter Whecle with latest mproveraents.

## W. T. \& J. GARRATT,

## Gity Brass and Bell Founders

## Frameis

$\mathrm{B}^{\text {abbet metal casticis, file engises, rorce }}$ B and Lift Pumps, Church nod stembuat Rells, Tav-

 COUPLING JOLNTS of AlL, sizks, Manufacturers of "Gar
ratt's Patent Improved Journal Setal.

## D. MORRIS, MACHINE SHOP 227 Market, corner of Beale Street.

Manufacturer of
WARRANTED FIRE-PROOF SAFES
LEWIS COFFEY AND RISDON,
STEAM BUMLER AND SHERT IRON
The only oxclusively Builer Muking Establishment on Boiler Makers. All orders for New Werk, the repairiog of Ola Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets. Opposite Orie
LEWIS COFFEY
J. N. Rispon.
rHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
$\mathrm{M}^{\text {cinhings mantruminili }}$
 Rupairing of Machinery promptly attended to.
No. 418 Market street, San Franciace.
$.3 \mathrm{~m})$

## HIRAM WRIGHT, PICK TIAKER,

Has established a sanufactury for the Making of
MINER'S PYCES,
NO. 121 POST STREET, SAN FRANCTSCO, [Retweeu Montgomery and Sansume,] Where can be lud a superior Pick for Miners use As he manufactures nll his pichs under bin own personal
surpervision, he warrauts them an heing made of the surpervision, he warrauts them an heing ma
best material and by the best workmanship. Orders attended to and Glled promptiy and with dispatel.

## WRIGHT'S PICKS,

JOHN WRIGITT, of Sacramento, has establistec numseif in San Prancisco, for the manuficture of every
description of PICKS, of the best material, it reduceil

 my name. JOBN WRIGHT, 511 Market street,

CALIFORNIA TOOL WORKS!
John Weichhart,
All Kinds of Edge Tools, Etc, Plane Irons © ouding Irons,

Houlding Irons, Stone Cutiter's Tools, et
Fremont atreet, bet Marset and Mission,

How Surdiers Distroy Rati-roadg.-A lotter from Gen. Grant's army to The Springfield (III) Jou, nal, describing the recent uperations of our forces near Jackson, says:
Our operations on the railruad were of a novel character.
The regiment would be formed into line on one side of the track, and at the command every man would take hold on the end of a tie or a rail, and, straightning op, would lift the track from its bed, completely capsizing it. I'hen, piling the ties together and setting them on fire, we laid the rails across rendering them unfit for future use.,

Eye, Ear and Throat.

## DR, DE CASTRO, Oonlist and Aurist,

W Ho Mas Pracrised in New
 sulted upon disearken of these delicate organa, with a view


## Self-acjusiing Artificial Tympanum,

For the relier of deafnens, attended by loss or injury 0
the membrna tympuni, and fur the cure of disebarge
 Treatmeut," "tce.
The sel -atluuting Artificlal Tympanum was arge introThe gelfaldyuting Artifc lal Ty mpanum was 6 rgt intro-
duced to the lutice of the professiun it the meeting of the Medical Society of Londmon, on the 20 the of November 1863. An auimated dischassiou "nanued on the reading of
thu paper, aved keveral members of the Socioty bore testimony to the guscess of the remedy and the importanee of Lhe iriginal discovery.
Mr. Bater Brown
Mr. Baker Brown (niember) boretestimony to the SolfAdjusting Artificiul Tympanum, 88 he had doserved the
immente beulic a young lady frient of bis had received
 erable sate, the effect of the tyinpanuma was ingtant tane-
ous-quite itike a miruele. Five more cestimoninls frum Nembers of the Bedicul College, New York, and the principal ellies of turnpe.
Operaling Rooma, UNION BLOCK, corner of Market and Kearny streets. Entrance ou Market street.

203 Mr. Editor-Having heen afficted with cutrress for the last two yeurs, originating froman
severe cold, nud for the last month sulferiug from the most excrutiating pains in my ear, I was nubliged to come duwn to sill Fraticisco to seek relief. After a plysician's
recomeadation to wuit on Dr. Do Costro, on the corne recomondation to whit on Dr. Do Castra, on the corner of
Kearny und Market atrcets, and underwe Kearby isad sharket Atreets, and underwent one oporation, was suddenty and withoot pain cotirely reatored. I deera $t$ my duy so make this krown to the bublic, and to recommend Dr. De Castro's gill as an nurist, Napa Vally.
Sun Fruncicico, Juily 30th, 1883.
[From the Daily Alta.]

ED'rs Dulty Alta: San Francisco, June 30th., 1863.
Permit me through your widely circulated journal, to say, thus my daughter stary Elien, has beon anlicted with dearnegx sinee she wns thirtecen mouth old, and that she
bas bren a member of the Deaf and Dumb Iostitute siuce it was nrganized. On haking her to Dr. Do Cantre, oun tho conrer orkearney nod Markect Streets and undergoing un-
der his direction, two operations, ebe has heard sounds
 way to get pormanout rolief The resuit, thus far, is sat-
istactory ; and I deem this notice due to Dr. De Castro for istactory; and I deem this notice due to Dr. De Castro for
hin skill ; and would recommend all parties similarly afaicted 10 give hima $n$ trial. My thuybter bas at difforent times been under the care ot the most skilful phyyicians
and aurits in Cnifornaia, but up to tule poriod of visiting
Dr. De Castro, received io beneft. CHAS JOHN P. WRIGHT, 812 Green Street.

## APARTMENTS.

FURNATHED apabtmetins, with, or without F Board, at 1018 Powell sireet, between Clay and bome will do well to arply

To Mining Companies,
I OR EAKIE-A STEAM ENGINE AND BODERE, THE incu stroke-solud irm frame, with heater, pumps, etc, all complete. The boiler has 5 llues, is 24 feet iong, 40
inches in diamoter, made up from the lest three eighth inch Jow Mour Irou, aud woighe absut 5000 pounds. Both Eugiue and Boiler are in perfect order and fully San Franeisco, June 13, I863.

## MIINING CERTIFICATE LOST!

Certifite for Ten Shares, No. 33, dated July The fiuder will be suitubly rewarded by leaving it ai oom 24. Governmeat Block.

| MINING NOTICES. |  |  |
| :---: | :---: | :---: |
| Winona Gold and Silver Mining Company - The first annual ineetilig or the stuctholders of the Winoma Gold and Silyer Hiung Company, will be held at the Company's office. No. 4ts Sontgumery sireer,fur the election ol bive Tru-tees for the ensuing year, on the 19 h day of septı zober, 1863, a1 7/, P. M. By order of the Board of Trustees. M. G. ELMOLE, See's, aug24 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Red Jacket Mining Company.-At a meeting of the bunard of Trustuen of the above company behl July 7. 1863, the first assessment of Five Cents per share on the capiral stock was levied, pingable immedtately in L'nited States gold ecoin, to the Secretary, office 4.20 Moutgomery street, Roon No. 2. By order of the Board. <br> aug24 <br> J. W CROSL.EX, Secretary. |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

OAfee Table Nountain Copper Mining


 dent, at Copplery street, or to 3. M. Pike, Surperinte
aL. G. ELSMORE, Secretary.
 Compary, Uffice No. $5: 8$ Moutgumery street, San Frimi advertised As delinquent on tho TWW:NTY FOURTH
DAS UF AUGEST.
M.G. ELSORE, Sceretary.

Offee of the Niasiara Consolidated Gold and Silver Miniug Cumpry, Ehrmado Cunou-Kinticu hereby giren that tbe Bnard o
levied an assessment of Twenty levied an assenment of Twenty ficc Cats pare this dity
ou each a $u d$ every share of the capithl stock of the uni on each aud every share of the capithl stock of the sai
Company, payable in $\mathbb{U}$. S. gold coin immediately to tho Secretary, at the fffice of the Company, No. 528 Mont-
gumery street, or to the Contractor at the Caben. Secretary street, or to the Contractor at the Cabod
M. GL ELIORE, Secr
San Francisco, July 20. 1863.
retary,
augas
BIEHN, HEMME \& CO.,
ASSAYERS. Ofice, Montgomery street, cor. of California,

## Assays Made of ores, Minerals

 and Metals.REFERRED KTTII PER3mssaon to

| Messra. F. PARROT \& CO., | Measrs ATSOP \& CO |
| ---: | :--- | :--- |
| R. BSTVAN. ESq., | DONOHOE, RALSTO |


Cass F. RIEHN, late U. S, Brbnch Mint, gives Iessnns in Asseying, also in Nineralugy aud Chen
quired to beconse a practical Assayer.
THE EUROPEAN ORE REFINING

## COMPANY.

Quartz Mill and Furnaces, Bryant Strcet, Crossing Third, San Francisco. RECEIVE ALL KINDS OF
ORES AND MINERALS.
In large or small quantities, for sucl Experienced Trea ment by the

Lates muropean methods,

## CAREFUL ANALYSIS,

At their works, to be the most Effectual in obtaiolog reliable results, and afterwards converting fhatever precious Betals they may contain, into marketable Ingots. ND The South Park, and Folsum and Kearaystreet Cars pass Bryant street.

E1 Paso District, Los Angeles County, MINING AGENCY. C. W. TAPPAN, GENERAL AGENT, "Head Quarters," Mesquit Springs, Will attend to any business conuected with these mines for a reasodnble consifieration. Lherters of Evatisy. enntaining Revinate or Postage Stamps to the value nf fity cents, and enclosing an ad-
dresued envelope for repis will be promplly attendel dressed envelope for reply. Will be promptly attendel to.
The subscriver has a caresully prepared map of all the The subscriver has a carifully prepared map of all the sale at very low fegures. For furtler particulars he would refer to J. Buxmet, Esq., 425 Ilavi= St., San Francisco Cal.
El Paso, Jube 21, 1863.
C. W. TAPPAN.

## WANTED,

Godideartz sutablefor CUTTING JEWELRY,
by frontier a. Devierey,
437 Pine alreet, San Fraucisce

## MINING CARDS.

ALEXANDER STOTP,
MINING SECRETARY 512 Sthsome Street, San Fraucisco.

Secretary of -
Honcer ifor, Silver and Copper, Monte Diablo.


T. Y. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street.
$\mathrm{O}^{\text {pren }}$
PHIR SLLYER MNING ETOCK,
gould \& CURRY minlyg stock, chollar mintigg stock,
califurnta stram naytation cós stoce, BOUGHT \& SOLD.

## F. yiluer <br> W. c. coley <br> MILLER \& COLEY, Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

Estate Sales Rooms, Sin Yranci co.
ALL Kinds of stock and minime Business attended to with Promptness
and Dispatch augl7 and Dispatch

## L. F. LELAND, STOCK BROKER, No. 621 Clay strect,

Offlec Hours, 10 to 11, A. M.; 23/i to $3 / \frac{1}{2}, \mathrm{P}, \mathrm{M}$.
Member of the San Francisco Stock and Exclango Boaru
E.T. PEASE, R.S.CORNTNG, SAMTLC. BOWLFY

PEASE, BOWLEY \& CO,
Heal Estate, Stock and Exchange
BROKKRS:
Legal Tender Notrs and Mining Stoces, BOUGH'I' \& SOLD.
AGENOY

For the Purchase and Sale

## MEXICAN IMINING STOCKS

 Califiln porso
All persoas are invited to call and examine Ores from tel3 mines.

WM. FAUIKNER.

## New Bedford Copper Company.

 or ufactures or
Sheathing Copper;
Brazier's Copper;
Copper Bolss;
Yellow Sheathing Metal;
Copper and Composition Natls; Which they offer to the Traie at the
rate, and on the most favorable torms

| je-29 |
| :---: |
| BiorgAN, STONE \& Co |

R. W. FISHBOURNE,

## PRACTICAI LITHOGRAPHER,

ENGRAVER AND PRINTEER,
$\mathbf{N}^{0 .}$ 5\%9 CLAY St, CORNER OF LFIDEsDORFF, Cortikates, Bils of Exthauge, Bills of Lading, Bank Cleceks, Laudscopes, Archistectural ind Marine Views
Show Cards. Lnbels, Eitc, execumed with
Dentpess and dispateh. N. B. All orders in Crayon Work promptly atteaded to. MIN IN G
uess and dispatch, and at greatly reduced rates promt
MYERS\&DAGGETT'S
IKining and Stook Exchange,
Mining Slocks of All Kinds Bought \& Sold.
Business connected with Mining Stocks ot every descrip-
tion promply and emfinentinly attended to.
tion promply and cinciaestinuy athended $t$

## BUSINESS CARDS

Napoleon Copper NIining Company Capital stock................. $\$ 1,6 \approx 0,000$.
z,z00 Shares-- 8600 Per Share.

Length of Lend 2,700 Feet ; Location of Mine, Gopher District, Calaveras county: Iucorporated
October 3, 1862. President
Secretary
Trear urer
Superint
Superintenda


## 


S. . HOLMMMEE of Hilcmbe liguthers.

Ofice of Company, No. $\underset{\substack{4,20 \text { Matgomery street. } \\ \text { je29 }}}{\text {. }}$
The Pacific Mineral Compnay
M
Copper, Siliter, Tin, Nichel, Cobalt
Lead, and Sulpiubets contanina Gold.
Hue nconuat tuken of all valu-ble metals combined
with Silver and Conper Ores, and adrances made there

 justify such expeutiture.

$$
\text { OFFICE, No. } 1 \text {, ODD FERLOTS' HALX, }
$$

ict-if Mantemery Sireet, SIA Fruncisco.
MARTIN \& Co.,
OFFICE--.-284 3ontgomery Street, Up Stairs,
will contract for the
Purchase of Copper Ores,
Assaylag 8 per cent and upwards of Conper to the TonWe will make ADFANCFS upon Ores of COPPER, TIN Sucks will bo furnialief and Freighter $P$

$$
\begin{aligned}
& \text { Hendy Martin, } \\
& \text { J. F. Greemman, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { je } 1 .
\end{aligned}
$$

To Mining Companies about to Incorporate.
JOHN ARMSTRONG,
Conteyancer, 610 ilerchant Street,
Is Prepared to draw with Accuracy aud Dispatch,
Certificates of Incorporation-Trust Deeds
and all other Papers,
neccessary to the correct Incorporation of Minlug Cum-
panles, ou reasonable terins,
All letters of euquary cheerfully and prompuly nns-
wered. Addreas as above.

## TO MINING COIKPANIES!

Offices To Tut. SUIIES OR SINGLE ROOMS,

Government Block,
N. Tr. Cor. of Sunsome and Washiugton sts.

San Antonio Gold and Silver Mines,
FORWARDING \& IIINLNG AGENCY. SAMUELSMITH,

## OFFICE-North West Corner of Front and Clay

$\mathbf{M}^{\text {Lnnge machinery and herchandise for }}$ warded, Mining Cliams secured, through the


## H. C. KIBBE, nIINIVG SECRETARY,

Commissioner for Nevada Territory 543 Sacramento st., cor. Montgomery (armory hall.)

BUSINESS CARDS.
IMPORTANT!
To Mining Companies, Miners,
Prospecting Parties, Commanders of Ships, \&c., \&c., \&c.
THE UNERSIGNED HAS RECEIVE DESICATED AND COMPRESSED

## Of Mescra, chollet \& CO., PARIS, whicli be offera n for sale tu tets to sult.





aug 3
No, 215 Frout streut
SOUTH PARK
Quartz Mill and Reduction Works
G G able ann silver ores Worken $A T$ RFaso: Ot able retes, and Working Assiys made uf sm
lota. Als kinus of ores crushicd at shori notice. Offte in shiel's Block, opposte M. H. Misint aco

## W. W. HANSCOM,

Steam and Mechanical Engineer
Designs furished, and Drawings made $f$ Engines, Mills, Water Wheels, Mining M chinery, etc., itc.,

State Iron Worke,

## MINING \& SIENTIFIC PRESS,

THE ONLYMINING, MECHANICAL AN SCIENTIFIC PAPER ON THIS CONTINENT.
THIRD TEAR: VOLUME VI.-NEW EERIDS
A uew volume of this exteosively circulated pap commenced sept. 11, 1882. It is is interded that erey
aumber shaglf bo ropleto with information number shall be repleto with informatios concerul
Miumg, scientific, Meclazical nud Iudustriul purbvit together with several originnl engravings, of new inve: tions, etc., prepared expressly for its columns.
This paver is devoted to the above purposes, togeth This paper is devoted to the above purposes, togeth
with the interests of Science, Arta, Agriculture and Con merce, and any gencral iuformantion that may be of
terest to the reader : ant it is the intention of the nr pritor to spara no pains or expense in tmaking it equ
in in interest and valusble information to any paper published

The Mining Interest l
Will find it of griat ralue, as it will contaln all it
news apperuingo to Mining, the prices cud sales of $M$ news apporkinnog to Mining, the pricess and sales
ning Stocks, uew iuveutions of Machinery udapted to tar purvase, and of every thing generally that may be of 86 vice to the 3 iner

The Inventor
Will Gad it au excellyont medlum for the parpose bringing bis invention into notice, of ascertaining ul
progress of inveutiou io this and other countrics an alono of receiving any information tbat may be nece gary in obtiining his patent, the preprietors having bin
great exparience an Patent Agenta, teesether witb hucl great oxperionce as Preant Aggit, teqe ther witb ficl
ities at Wa liagton that cuable them to obtain Paten ities at Wa lina
with dix pat:l.

The Mechanic and Manufacturer! Will be greatis benefited by its perussl, ns its ec ings of new machines and inventions, togetlier with large amount of renting mattro apper tuin ing therct
We are constantly receiving the best scicutioc joun pals from all quarters, frow which we sball cont our readere.
To Chemists, Architects and Millwrights This jouraal will be invaluable. All new discoveri in chition of great service to Architecter and Milwrigh will be found in our columns. The Farmers and Plat
tels will not be neglectol, engravings will be gived te1s will not be neglecton, engraviaks will ip gived
agriculturai implemoents, and tho farmi ing interest ge agricultura wimpate be amply discussed.

To mall subseribers: Termar lifinrs per andum
Club Rates.
Five Capies for Six Monthe, \$8.

Twenty Copies for Twelve 3fonthis, $\$ 56$.

copies will ho arnt eratie tonnp wirt of the rnunty.
Rnom 57, Goverument Horse, Corner of Washiug
and Sansome streots, San Francisco.


THE REAL DEL MONTE MNE AND MOLLA
One of the most promising mining enterprises on the Faatern Slope, at the present tim $n$, is that of the Real del Monte, Consolidated Guld and Silver Mining Co. The Company is now putting up a mill, which will bo s cond to none on this Cuast. Its cost will be about $\$ 150,000$. The location of mill is described by a correspondent of the Alla as a pleasant sitmation at the junction of Bodie Creek and Esfmeralda Gulch, about two miles from the mines of Last Chance Hill. The main building is 160 by 60 feet, with an ngine room ndjoining, 36 by 47 feet. The mill will have 30 stamps, with 24 of Wheeler's pans, and 12 separators. The rock, on reachiug the inill, first passes under two ponlerous stanps or "spallers," weighing 1500 tbs, each, worklog upon dies, enclosed by iron grating. - These stamps have hree feet fall a nd merely break the rock sufficiently fine to fass thence under the battery. This crushing apparatns is placed in front of the battery, and at a convenient elevafion above it. The will is capable of crusbing about 45 cons of rock per day, and will be in full nperation about the first of November next.

## tie enalive.

The Mill is to be driven by a beam Engine, having a cylin der of 16 -inch bore with 36 -inch struke, with balance valves of the most approved style, aed Winter's variable cutoff arrangement, which gives the engineer the most perfect command of the steam, from the full stroke down to threeighte.
This Engine has been built at the Miners': Foundry, where he finishing work is now being put upon it, and is one of the nest pieces of work in that line which has ever been turned at on the Pacific Coast.
In the design of this Engine the gothic stgle of archibeture has been generally observed. It is constructed upon substantial foundation, 17 feet long and $51 / 2$ wide, securely bbed and bolted. Two gothic arches rise from the centre If the foundation plate, as supports for the beams, which are pautifully ornamented and painted with Union emblems, mong which appear, at diffierent points, 13 hrilliant stars, he whole surmounted with an elegant gilt eagle. In frunt the Engine, is a convenient platform from which two colmans arise, the one on the left containing the throttle valve, nd that on the right the unhooking gear. They are so aranged that the engineer can readily work both at the same foe, and also work the engine by hand, without changing is position.
One peculiarity, deserving of especial attention, connectd with this Engine, is the arrangement of a rotary cam or rek shaft for working the valves. One important advantage laimed for this arrangement is that the valves may be open1 and closed very quickly; another advantage grows out o te facility with which the exhaugt valve may be made to llow the stean palve at exactly the proper distance-a reIlt impossible to he a"curately obtained with a vibratiog raft. The rotation of the can shaft is obtained by susanding the excentric rod by a movable link attached to its ntre. This, we believe, is the first tine this motion has en applied to a steam engine on this coast. The govern-
or is conveniontly arranged and is exactly halaneed, and, mmuing by a gear, is not liable to any possibility of irregularity in motion; aud will throf to the eugine at the slightest appreciable increase of speed.
This machine was designed and dranghted by Mr. 1. M. Scotr. The entire wark, both in desing and execation refiects great credit upon the par ie's named. It will be driven by two tubular boilers, each 16 feet long and 50 inches in diameter. The balance wheel, which is cast in sections, is 18 feet in diameter and weighs about five tons. Wheu this mill is in full operation, our friends in Aurora, will be able to point out to visitors in that region a mill and engine, which in completer ess and substantial fuish, will compare favorably with anything in Virginia City, not forgetting the famous Ophir or justly lauded Gould \& Carry Mills.
The Aurora lode, one of the Company's Consolidation claims, is in splendid working order. The lode has been opened out in chambers or tunnels, intersecting for the distance of 400 feet, by which means 100 tons can be taken from the mine daily. The face of the ledge is now 16 to 18 feet wide, all pay reck, and will average from $\$ 125$ to $\$ 150$ per ton. The richest of the ore taken from the mine, is be ing sacked and reserved until their mill is ready for active operation.

## LARGE BRASS CASTING.

Passing by the Miners' Foundry, á few days since, our attention was directed to a large piece of brass work upon which the workmen were eugaged in the area just above the Office. On enquiry, we learned that itt was designed for a double acting Force Pump for the "Silver State Redaction Works."
The Cyliuder was a 14 inch bore, allowing a 36 -inch stroke, and weighing 1600 Ibs.'. This, we believe, is the largest brass casting ever made on this coast. It was handsomely finished, with two valve chambers of cast iron, each surmounted with a copper air dome, four feet high and 22 inches in diameter. The suction and discharge pipes were each 12 inches diameter. The work was designed by Mr. I. M. Scott, Draughtsman for the Miners' Foundry, and anpears to be especially well adapted for the work for which it is designed. It is the intention of the Company to place this punp in their mill for the purpose of meeting the exigency of fire. A large tank will be placed upon the comb of the roof, extending its entire length, with its floor or bottom perforated with a large number of bol s , thus making it like a seive. In case of fire this force pump will be set in motion, throwing a constant 12 -inch culumn of water into the tank, which will thence be distributed over the roof and down the sides of the building, thus enveloping it in a complete sheet of water, while for the inside, hose are attached to the bottom of the tank in sucha manner as to completely flood the interior of the building at the same tine. The idea is a most excel lent one, and we would suggest its adoption by by all out
arge mill establishments. Such an arrangement, kept in working order, with power at hand for' instant application, must be an effectual saferuard against any possihle serious

## THE GOLD MINES OP WALES, (ENG.)

The English papers are still giving farorable accounts from the gold mines of Wales. Mr. J. Musheimer, formerly of this city, now operating in those mincs, writes to the London Mining Journal, of July 18th.; as follows:-

To prove that the gokl fields of Wales are not yet exhausted, I will pive you a few facts of a new discovery near Balu, in the so-c'alled Custle Com Dockan Mines. The lorde is directly under the ruins of an old castle, aml no doubt, the former oceupants built their strong holl th guurd their treusure underneath. It is remarkable that the gold there had not been discovered long befure this, as ull the loose bouldeas on the ground contain visible gold, and even in the wall built with those boulders the gold could be seen. "The finding of this valunhle discovery is due to a boy of about twelve years of age who, while plaving, rnong those rocks, fonnd gold in perfectly white quartz. The property is worked by a company who have opened the lode to a depth of 20 feet, where it is three feet wiae, with decomposed quartz."
Mr. Mosheimer took a sample of the rock, and subjected it to a practical working by crushing and amalgamating, and obtained a yield at the rate of ten ounces to the ton. The Company has ordered machinery for the mine, which will be put ap with all convenient dispatch.
One Johu Penry communicates to the same issue of the Journal the following: -
"It is likely rome of your readers will be glad to learn that I have discovered, this week, in one of our mountain hills, a lode containing splendid visible gold. This is a great encouragement to go od still with our efforts, and I dare say this discovery will have great influence 'on the interest of several mines' siturated around it." 'You may expect some further particulars with regard to this very shortly."

## GOLD IN SCOPLAND.

Scotland contains both gold and silver mines. Gold is not anfrequently found on the mountain sides; -after heavy rains, in grains or attached to pieces of quartz and saphire. There s a gold mine on Crawford Moor and another on Fryer Moor, in Oleydesdale. "There are also two other mines in Widsdale, and three on Glangaker Watten, in the Forest of Attire. One Cornelius once discovered a gold mine at Crawford John, and in thirty days time took to the mint, at Edinburg, eight pounds of native gold, worth about $\$ 22,000$. Scotland also contains valuable mines of lead, iron, copper,

The Corper Mines of Prussia. - The high price of copper has caused a greater activity than usual in the copper mines of Prussia within the past two years. The produce of 1861 was 2273 tons against 1964 tons in 1860. The average yield of ore not far from 300 tons to each mine worked.

Powfr of Powder. - A distinguished engineer officer, who took a prominent part in the bombardment of Fort Pulaski, has made a calculation based upon the destruction caused by the late powder explosion in Eighty-ssxth street, New York City-that had our artillery succeeded in exploding the enemy's magazine at Fort Pulaski, to which its main effort was directed, the result would have been the annihilation of both the opposing forces. No man would have been lelt to tell the tale, no stoue left upon another to mark the sight of the contending foes.

## THE MINELS' LABORATORY-NO. XIV.

## SILVER

Kerale.-Choride of silver, Hornsilver. No cleavage observable. Fracture conchoidal; uneven, earthy, transparent, translucent on the edges. Lustre waxy inclining to adamantine. Poarl-grey, passing into various slades of blue and green, yellowish white. Grows brown when exposed to light, Streak shining maleable, anä̀ sèctile. Specific gravity, 5.55 to 5.60 . Before the blow-pipe, melts very easily, with ebulition, and is gradually reduced into a globule of silver in the inuer flame. Is redueed when rabbed with water on iron or zinc. Soluble in anmmonia and cryptalizes from the solution in octahedrons.

| analysis of the mineral kerate. |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 1 | * | 3 |
| Silver, | 67.75 | T6.00 | 68.00 |
| Chlorine 2 | 27.50 | 24.00 | 32.00 |
| Red uxide of Iron, | 6.00 |  |  |
| Alumina, | 1.75 | - |  |
| Sulphuric Acid. | 0.27 |  |  |

This ninerals is found in crystals, reniform, investing other substances and massive in veins in the older rocks with some of the other oers of silver, is found in nearly all the silver bearing localities-considerable quantity is found of it in the California and Nerada silver mines,
Emboblite--Fracture hackly, Fustre adamaritine, sulphur yellow; siskin-green on a freshly fractured surface; olivegreen on the exterior perfectly malleable. Spacific gravity 5.789 to 5.806 .

> Chlorine,
> Silver,
> $\begin{aligned} & 13.05 \\ & 66.86\end{aligned}$

Bromite.-Bromide of silver-Bright, olive green, passing into yellow, acquires a grey tarnish, streak siskin-green; spicific gravity, 5.8 to 6.0

It melts very easily before a blowpipe. Is butfeebly acted upon by acids, soluble in warm concentrated ammonia.

## analysis of a specimen from mexico.

> Bromine. 52.5

Is found rather abnndantly in very small crystals and crystaline grains, with Lerate and cerussite in the mine of Sanonofre in the district of Plateros in Mexico, and with Kerate in the silver mines of Copiapo in Chile.

Iodite.-Iodide of Silver-Transparent, translucent, lustre resinous, approaching to adamantine,' 'yollowish-grey, greenishyellow, streak shining, spicifce' gravity 5.504.

Before the blowpipe on charcoal it becomes red; melts wery easily and imparts a purple-color to the flame; in the inner flame yields a globule of silver; soluble in concentrated nitric and bydrocloaic acids with evolution of vapor of iodine.

Iodine,
ANALYSIS.
Silver,
.36 .88
.64 .25
minerals not auch known-maperpectiy discribed.
Gold Amalgum.In small white globules, in the Platiuus Steam Works of Columbia.

|  | analysis. |
| :---: | :---: |
| Gold, | ... . . . . . . .n. . 38.39 per cent. |
| Mercury | ..0ット.... 59.40 |
| Silver,. | . .a......... 6.00 |

Aphphorite,-Steel-grey, compact, spicific gravity 4.87 melts easily before blowpipe.

## ANALTSIS.



Bismuthic Silver:-Fracture uneven, fine grained, opaque, Iustre metallic, light lead-grey; acquires a dark taraish by exposure ; soft, sectile.

| Silver, . . . . . . . . . . . . . . . . . . 15.00 per cent. |  |  |
| :---: | :---: | :---: |
| Lead, | $33.00{ }^{\circ}$ |  |
| Bismuth, | 27,00 |  |
| Iron. | 4.30 |  |
| Сорp ${ }^{\text {T, }}$ | 0.90 | " |
| Sulphur | 16.30 " |  |

Browgriardite.-Fractura uneven, no cleanage observed, lustre metallic, streak blackish-grey, specific gravity 5.950 . In the matress decrepitates, passes and yields a slight orange sublimate in thre lower part, and a white sublimate
above. Before the blowpipe, on charcoal, melten below-redness, emits the odor of sulphur, and white fumes, and leaves
globule of silver, surounded by a yellow aneala of oxide of globule of silver, surrounded by a yellow aneala of oxide of
lead. Partially decomposed by nitric acid. Soluable in a large quantity of boiling hydrochlorlc acid.

|  | analysis. |
| :---: | :---: |
| Sulphur, | . 19.24 |
| Antimoney | . . . 29.77 |
| Silver, : | . . . 24.77 |
| Lead, . | $\cdots .24 .91$ |
| Copper, | 0.62 |
| Iron, . . | 0.26 |
| Zine,. | 0.36 |

Blende-Sulphuret of Zine; very frequently contains small quantities of both gold and silver. There is not anything in the appearance of the blende to indicate the presence of silver. Should parties come across deposits of this mineral, it would be better that they pass it over to the hands of an experenced assayer, to prove the presence of the precious metal and also to what extent.

THE ANTYOCH SMELTING WORKS FIRIVG UP.
We have been informed that the furnace of the California Copper'Smelting Works, at Antioch, has been in operation since the 2 vd of this month, but they are not ready to smelt as yet; the Superintendant requiring some two or three weeks to heatand prepare the furnace. We shall soon be able to form an accurate idea as to the value of Mount Diablo coal for metallurgical purposes. The furance, we understand, is to all intents of the same kind as those now in use at Swansea, South Wales, Great Britain, with the exception of the fire place, which has been modified so as to all low the use of the lignite coal. Should this coal produce the necessary heat for the smelting of copper, we see no reason why the present enterprise would not be a profitable one; and it so, at no very distant date, we shall have other manufactories of a similar character, along the foot bills of old Diablo, on the sides of the road leading thither and along the banks of the San Joaquin. Our hearty wish is success and good luck to the young copper smelters.

## BATTLES AND RAINS.

The theory of Professor Espy that rain may be produced in any locality by that disturbance of the atmophere which results from great or continued conflagations, is supposed to have found confirmation during the present rebellion. It has certainly been remarked that rain showers of considerable violence and duration have generally followed or attended all the great battles of the present war, in which an unusual proportion of the heaviest class of ordinance has been employed. Indeed, it would appear by accounts form the South, that the very climate of that region, has been effected during the past and present season. The usual diseases peculiar to many localities, there, have been almost unknown. The weather has been cooler than usual, more xain has fallen and the atmosphere appears to have assumed a more bealthgiving and envigorating influense than ever before known during the Summer season. Whether this is attributable to to the chemical effects of burning such an immense amount of "villianous Saltpetre," or to the tremendous coneussions produced by the extraordinary weight and amount of artillery employed, or to some other cause may at some future time be made a matter of serious enquiry.
Unfortunately for the theory of Professor Espy, however, the circumstance that rains usually follow great battles, was a noticable and recorded fact even before the employment of firearms in war. An Eastern cotemporay has hunted up the following paragraph, which occurs in Platarch's life of Cains Marius, who, in speaking of a great battle that oe curred some fifteen hundred years before the use of gun-powder in Europe, says :-
The opivion of Arcbicolos is confirmed, that fieldseare fattened with blood. It is observed, indeed, that extraodinary rains generally fall after great battles; whether it be that some dei'y chooses to wash and purify the earth with water above, or whether the blood aud corruption, by the moist and heary vapors they emit, thicken the ains which is liable to be altered by the smallest cause."

Tere Pacific Montely for September has been laid upon our table. Its contents are, as usual, varied and interesting and marked with a good degree of literary ability. We notice especially a very yaiuable article on "The Mines of California," from the pen of Joha S. Hittell, Esq.

## NEW THEORY OF THE GENERATION OF STEAM.

We have now before us the second edition of Mr. Williar work "On Heat, in its Relations to Water and Steam; e bracing new riews of Vaponization, Condensation and F plosions," in which the new theory is carefully demonstrat Mr. Williams considers the subject under thirteen heads, cluding the three states of water, Vaporization, diffusion vapor, heating and expanding of water, the boiling poi ebullition, vapor in water, condensation, the vacuum, evap, ation, spontaneous evaporation, explosions and the jet, spectively. The position which Mr. Williams maintains that there are sufficient scientific and reasonable grounds asserting that water, or its atoms, can neither be heated i expanded, and still retain the character of liquidity, and 1 property of attraction among their follow- atoms ; that prevailiug theories as regards ebullition are altogether erri eous; that the so-called boiling point, as regards tempe ture, is merely that point at which the water is charged w rapor to saturation, under the true Daltonian theory, the: ter acting the part of a mere vacuum ; that we have stro grounds for velieving that there is no difference between 1 cause which produces divergence and mutnal repulsion anio the atoms of a liquid on becoming vapor, and that whit produces a similar divergence and repulsion in the pith be or gold leaves of the electroscope ; that if there be such thing as thermo-electricity, we are warranted in conclud that it acts in the same way, and on a similar principle, atoms of a liquid as on those pf other bodies; that we hi rational grounds for beliving that explosions in steam boil are frequently the result of the accumulated steam (pres in the body of the water) being suddenly released by the moval of the pressure from the denser medium of the wa into the lighter one of the air; that Watt's theory of ste. being condensed and reconverted into the liquid state by direct action of cold water is altogether erroneous ; that val or steam cannot give out its heat to water, and is mis mechanically with it on the true Daltonian theory; and $t$ we have no grounds for inferring that there can be more uu of heat in the body of steam than there are distinct ato of the matter of water, each of such atoms having own equivalent of heat electrically or otherwise combir with it-accumlation being the sole grounds of expansion a pressure. In judging of the value of Mr. Williams's conc sions, it should be borne in mind that his experience, wh extends over a period of nearly half a century, has b gained in comnection with two of the largest and mosts cessful steam companies in the kingdom-the Peninsular Oriental Steam Navagation Company, and the City of Du Steam Packet Company, and that he has slways given attention to the subject.-London Mining Journal.
The London Mining Journal, in another issue, refers again to the above theory of the generation of steam, sper of a paper read before the Liverpool Literary and,Philoso oal Society, by Mr. E. J. Reed. The object of the paper to show that the first effect of applying artificial heat to ter is not to heat the water, as such, but to convert a tain portion of it into vapor. Mr. Williams (the discove of the new theory,) first drew attention to the fact that rise of the generated vapor, and its diffusion through liquid were plainly visible to the eye, a discovery wb seemed to have escaped all previous experimenters. Edwards; an analytical chemist of Liverpool, exhibitec beautiful experiment illustrative of this discovery, by me of an electrical light. On heat being applied to a glass sel containing water, instead of the series of ascending decending currents described by all previous writers, a c tinuous movement upwards of cloud-like vapor was $m$ visible to the audience. After explaining this discovery length, and demonstrating that the movements made visi were those of vapor and not heated currents of water, author dreve several important inferences from the phenom non, such as that it is untrue to say, as many authors do, t vapor is formed at the surface of water only; that wa even when of a low temperature does not condense vapore., reconvert it into water; that water is capable of conts ing, and, when what is called warm or bot, does contain condensed vapor or steam. It was urged that Mr. Willian discovery rendered a revision of the common theory urgi ly necessary.
An Electric Dog.-There is at Dayton, (says the Viry City Bulletin $n_{3}$ ) decidedly the greatest phenomenon of present day. It is no less than an electric dog, which rubbed on the back by a human hand and the other pla on the dog's belly, the person experimenting will receive electric shock equal to that of any battery. This sing canine is said to pessess properties for curing rheamati gout and all other complaints sabject to cure by the batt

## WILLIAM BRODIE \& CO.,

ALIFORNIA FOUNDRY,

## romont strevt, near Sharket, san Franelvec.

Light and Heavy Castings,


## A S S A Y S !

Ipmptness and Accuracy Secured By tue Uar af the Must Larizuted Metiuns or
ANALYEIS:
antageons Terns for Prospector's Clubs and Jlining Companies.

## J. H. CHURCHILL, M. A,

$\qquad$

## BAUNCHEIDTISM, <br> Prkskrver and Producer of Life

IG EFFFCT OF bacxctemten as a hethon of




 a. cully win it he tuphlin
 inyetint of the methuid by whic
in furfeot master af blo later. 10 Kearucy atrent, and No. 4 , Mark's Plato, Fire


1. C. E. KLEPZIG \& 00.,

## *UN MAKERS,

EALERS IN GUN MATFRIALS,
Washington street, San Franciseo
[Gene hoor above Kearney stroct.]
pairing dono in a workmanlike manner at the shor iling, nad alsn Eilver Platiog, by E. Ekeland. j021

## Ciffards Injectors,

SUPDLYiNG ROLLERS WHH FEED WATER without Puraps No Mil or Maning Company it for a Ciliont olle

Pine and Front ste, San Erancisco
PATRONIZE gome manufacturies!!!
Tames Longshore, ank and Valise Manufacturer,

 y ou humbl. Trunks covered and repaired.

Style of Ladies' Buckle!
W, BOHM
Inventor and Patenteg.
1 CSUBSCRTBEP GAVING OBTANEEDLITTERSS PATni from Wastrinto for an tmprovement in the
nichou of Ladies' Buckles, is now ready to fur
 In use.
invention laving been carefully examiner at the Uilier, bas been addugged to be a useful mprore Ind Letters Patent hay
His ail other Uuckels in
anloes Streng
efulness, Strength and Appearance. Public is respectrully iovited to call and examin
cckle at the Jewelly Estaulistument of BRAVFRSLAN R LEVY,
621 Washing ton Sreet, San Francisco.
JOSKIH, BROTHERS,
607 Montgomery Streect, Sin Francisco, 118 I Street, Sacramento.
Agents for the Paitentec.
Buckle rold, stamped "w. Bolum," will b

## THE <br> BRYAN BATTERY.





 mp Furtery

ALONE STANDING THE TEST.
This, with the Impreverments whleh Experience has

## METHOD OF CRUSHING ORE.

TIIR RRFIs Rattras, as now conatructed, is belleved io combinue all the improvenuath whincle the experierce
of the pust has afurded. They have been

## EXCLUSIVELY ADOPTED

by many sf the most prominent 3 Inning Companica in the country, nill have hoen. for the three pant yrars, sub-

## Effective, Substantlal and Reliable.

Thiny are now extenaively used throughont the mincral roginns of Cilifornin, Novada und Mexico, and

Theso Mills are constructer nlmost entirely of Iron,
 thed. They are adapted to

## BOTH WET AND DRY CRUSHING,

and are warrantod to reduce, with the snme weight of
 perfect mill-while any number or them can bo added at a sobsement time-lil
uiformily of the Mill

As nn cridence of the incrensing fevor with whicb thes mills are reerarded. We wrold mention thnt the
Celelirated Ophir Company first intronuced them into Celelrated Ophir Company first intronnced them into
their works in 1880 , uud have been asdding a number of the ir works in 1800 nau hinve been aldidig a number n
Rutteries, ench suhsequent year until they now have Ratteries, ench subsequent year, unti
Nisetoen, ruaning Seventy-six Stampa, They are perfectly itter and get up at our Works, be-
ore sbipning, enct piece being marked and numberes, on that they can be pul up and get at work in ten hours
after arriving oo the ground. They are made of two siafter arriving oo the groubd. They are made of two si-
ze, frour and five stams cach. The Four stamp
Re, Batery weiphing compllate about 6,000 mounds
and the Five Stainp aboul 7,000 . Tho Mortar Bed teing and ine five stamn about 7,000 . tho Mortar sill beding packed over any mountaiu road.
We annex the names of if fow well knnwn Companio
who have adoltod them -r unning from fur to seventy Who have adolitad them-running from fur t
five stams each-to whom reference is made

Ophir Mining Co., Washoe Jalley, San Marcial Oo., Mexico, John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill. Potosi Mining Co., Vi, ginia City, Tajo Mining Co. Mexico, Sheba Mining Co., Mumboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlns Mining Co.,, Owen's River, Union Quartz Co., Anrora, Triunfo Mining Co., Mexico,
Napa Quartz Co., Aurora,
Petaluma Quartz Co., Gold Hill, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Oo., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico,
O. J. Parker \& Co., Nicaragua,

Gibhons \& Clayton, Esmeralda,
Smith \& Clouser, S. F. Reduction Works Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO.
At the Paoific Iron Works.
SAN FRANCISCO.
os 135 to 138 First strect, and 126 to 144

## John R. Sims,



Oregon strect. hetwnen Waohinglon and Davis and Froo Manmfincturers of Fire Proor Doors and Ans orders from the latherfor oregou, Warhington amd dapatch.

Mr. Sime Apprectatee the Past liberal patroung, of his frictida, aul trusta that he may For the Informition of Strangers ha would say that he reats confident that has expert
 ry town in this strte, flregun, alan Victoria aud the Sand ings in san Fradelacn, fully atconta. A large assortment of acculd hand shutters for sale ut tow rates. apis

LEANDER RANSOM, Civil Engineer AND

## SURVEYOR,

Having been connected with the public works of the State of Olio for 20 years, and the public survejs of the State of California for 7 Jears.

## STATE LOCATING AGENT.

And as such hnving tho sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Torms-Twenty per cent in cash and the balance
on a credit of scveral years.
Ol'FICE : Scond finor of Express Building, N. E. cor ner of Montgomery and Californiastreets. oc 7.3 m

## D. NORCROSS,

Masonic Temple, No. G, Post Street.
Military Gcods of all Descriptions.
Navy Trimmings and Embroideries,
REEGALIA FOR ALL ORDERS.
E. C. DAKE, pexiler ix
CLOTHING,

## Gentlemens Furnishing Goods;

HATS, CAPS, ETC.
At the New York Clothing Store, G41 \& 543 Washington st. Arontg'my Bik

## FOR SALE.

Patent prissed russia iron anning pans. Russia fron Quartz Screena for Mills ; Portable Furges Cauldron Ke
Seidd inine, Rubber Ho Lin
Wrought Irou Pipo ;
Bulub Cocks; Couplings ; Play Pipes; Cookhing Stoves and Hea: ing Stoves;
Tin Flite: Shevt Iron : Shiot Coppor ;


We are also manufacturers of the

## UNEQUALLED

MONITOR COOKING STOVE
Or RANGE,
For Hotels.
To wbich we call particular nttention
10-20

Devfloprmant of Mineral Wraith in Aaizona by Govmrament.-A private letter by Gen.J. R. West, dated IIart's Mills, Texas, August 1st, to a friend in San Francisco, has the following important inteligence:

Say to the gentlomen in feet, that it has been stated every way but officially yet, that I am to command a body of troops whose special mission, while exterminating the Apaches will he to settle and develop the mineral wealth of Arizona. This wenlth is almost fabulous. I had proposed writing you what had been officially communicated to me in regard to the recent gold discoveries near Tacson, but as I may prob ably visit that section of the country ere long, I will defer doing so until I can give you my personal experience. In my opinion, Arizona will yet startle the world as much as ever did California or Wishoe, with mineral wealth.

## PEOPLE'S

Steamship Line! Connecting California and New York via nicaragea.

50 M1les Shos ter than any other Routes
The Fast and Favorte Doublo Engino Steamship,
MOSES TAYLOR,
J. H. Bleteen................ Commandez Will be dispatched for
SAN JUAN DEL SUR,
From Mission street Wharf
SATURDAY, - - - OCTOBER 3, 1863 Punctually at $90^{\prime}$ clock, A. M., on
Connecting at Greytown with the Splendid Steamship HLLINOSE

Reduced rates of Passage and quiek trips are secured
By the re proning of the Nicaragun Route.
Theae Steamers are unsurpassed for sperd, cloandiness and safety, and every effort will be made to insure the For further information apply to
I. K. ROBERTS, Agent,

## UNION

IRON AND BRASS FOUNDRY. The Fixst Established in the State.)
Corner or Firat And Alishon Strems, Sav Fhangiso

HAVING ADDED TO THEE SEVEERAL Estul)lisliment is unw the most Exteusiva and Cumplate
The undorsiswed aro preparel to furnish, at short noicco, Locomotive, Marine and Stutionary Eagines, of ov
iry size aud deecription.

## BOILERS.

Lncomotive, Fine, Tubular, Upright and Cylinder,faraifhoil with or without ongines, cumplete. Fills, Grist Mills, Gur Wheels. Dervick Iromption, Saw
QUARTZ CRUSHING BATTE RIES Enubracing a great variety of Stamp, Mortar and Cam .
AMALGAMATING MACHINERY,
Varnoy's Improved Patent Pans and Settlers, Wakoly Pans, Amalkimatiug Tubs, P
Mills, Concentrators, etc., etc.

MINING PUMPS.
Cnrnikh, Lirt and and Force Pumps, from four to ight feet stroke, with Pipes, Bob Mountings, and GearHOISTING DRUMS.
For Shatts or Inclinos, with clutch, friction or $\bar{\nabla}$ cono. Sole $\Delta \mathrm{gents}$ aud Manufacturers for the Paciff Coast, of Sieam Pumpls and Fire Eugines.
All Coniracts and Orders executed with promptnese
od dispatch, and at roducert prices for Cash.
je21 DONAHUE, BOOTH, \& CO.

## A. C. MORSE,

## Mining and Real Estate Agent,

Ofris-s. W. corner Pine and silvor sts., Aurors.
 Toct Prokers on san Fracieiseo I am prepnred to BUY ind District
donahue, h. ј. booter. d. s. higins

## DISCOVIERIES IN CHEMICAL SCIENCE.

Discoveries in chemical science, for the past few years, have followed each other with such rapid succession, that the working chemist has almost ceased to be surprised at any announcement of new discoveries in that branch of research. His chief ambition seems to be that he too may be fortunate enough to be able to announce some important fact, which shall place his name conspicuously upon the roll of discoverers. Indeed nu chemist of the present day considers himself entitled to much consideration until he has made an actual addition, in the way of some valuable discovery, to the domain of his fororite science. So far from perfection is the science of chemistry supposed to be at the present time, that an eminent chemist has recently remarked that there is a future, and a no very distant one either, at which the present notions on the subject will be regarded with as much ridicule as we now regard the attempts of the alchemists of former times to produce gold by a combination and manipulation of the baser metale.

It is scarcely sixty years since chemistry assumed a place among the practical arts, yet its influence upon the commercial interests of the world is already immense. Instances are not unfrequent where important industrial. pursuits in one country have been entirely destroyed by the chemical skill and industry of another.

The manufacture of beet sugar, at one time threatened to overturn the industry of the Antilles, and might indeed have succeeded had not taxation come to the aid of the latter. Beet and sorghum sugars, owe their very existence to recent discoveries in the laboratary.

The gas works of Europe hiave destroyed the monopoly which Egypt once lield in the manufucture of sal ammoniae from camels' dung The chemist bas tanght us that the refuse of gas manufacture contains this salt in abundance.

Sicily, until recently, derived large revenues from her exports of sulphur to England and France for the manufactnre of snlphuric acid. The chemist bas now taught the ore smelters of those countries that they can readily and cheaply' obtain alt they require of this acid from their pyrites and sulphurets.

Europe, within a few years, was lamenting the destruction of the forests of Russia and America, as likely to prove a serious draw back to the manufacture of potash, a rapidly growing necessity. The anxicty on that point was promptly met and allayed by the chemist after some considerable experimenting, who showed that an inexhaustible resource of that description might be found in the refuse of the beet sugar manufacture and salt marshes all over the world.

It is but a very few months since we have witnessed the introduction, upon a commercial scale, of a large series of ordinary articles in domestic use made of a metal, (aluminum or the metal of clay) which is of itself of quite recent discovery, and which until within a few months has been so rare as to be regarded as a valuable curiosity. The present abundance of this metal is purely the result of recent clicm-ical-investigations and discovery: It is only since the conmencement of the present year that we have heard of the great commercial value of the discovery of a method of abtaining the most brilliant and valuable colors from so unpromising an article as common coal oil and tar, and their application in connection with dyeing and calico printing. An entirely " new : mètal known us "thallium" has quite recently been discovered, for the honor of which discovery, two distinguished chemists are even now contending.

But a very short time ago, a work on practical chemistry would have contained no allusion to aniline or benzole; paraffine, aluminum or thallium. Now these substances, with the exception perhaps of the last, are materials of large manufacture and a work on chemistry which should now be published without treating upon then, would be considered very imperfect. Judging from the past, we may reasonably expect that there are numerous substances now known only in the laboratory which will, ere long, become familiar in the factory.
Our own community is even now agitated with the disdiscussion of what is assumed to be a. nost important discovery in the way of a fluxfor smelting copper: : We have before us the mostindubitable evidence of the discovery of a riaterial, the component parts of which, to be sure, are yet unknown, but which, when employed in a crucible, in a laboratory process, produces the most astonishing resuits as a
flux for separating copper from its ores-effecting with many
varieties of ore, at one operation, the same results which have heretofore required from four to six or eight different smeltings. The annonncement of such a discovery, as may well be supposed, is received with many misgivings ; yet, with the past before us, we ought not to be surprised at anything, and may be reasonably hopeful, that this present discovery may result in all that is claimed for it.
Chemistry tou hes no art or industry without giving it an enormous impulse. It seems now a matter of the utmost astonishonent how mankind existed withont it until the present centary. The very progress of civilization seems n. W ompletely dependent upon it, and yet, as we have al ready said, it is but in ite infancy. What may we not expect from its future development !

## ERRICKSON AND HIS MONITORS.

Soon after the breaking out of the present rebeliion, the Government at Washington learned, from reliable sources, that the rebels were constructing an iron-clad war steamer at Norfolk-the same which subsequently made its appearance as the "Merrimack.". It was well known that our navy possessed no ships which could successlully cope with this expected formidable monster. In this oxigency, the genius of Errickson was at once called into exereise to devise a match for it." The result of his efforts was the celebrated "Monitor," which, by a most remakable coincidence, arived at Fortress Monroe but a few hours, only; after the dreaded Merrimack had made her appearance, and, by her destructive powers, spread consternation through the entire llect of war ships and transports, in that vicinity. The result of the trial of strength which ensued has already passed into history; as one of the most resnarkable naval engagements which has ever taken place, and has had the effect to complelely revolationize the art of naval warfare. Since that time numerous other Moni ors, constructed upon precisely the same principles, have been been putafloat, and subjected to the severest tests known to inodern warfare. From the first, they have never failed to auswer their purpose. The problem proposed to be solved by Mr. Errickson was the construction of a vessel, which should present to the enemy the smallest possible target, practically impenetrable, jet-which should at the same time be uble to throw such a weight of metal as wonld demolish any antagonist previousIf existing, or which could be constructed upon any other principle. The Euccess of the effort has been most com plete. A greater trinmph of enyineering skill has never been placed upun record in the world's history.
When the first Monitor was bnilt, 11 -inch guns were the heaviest known to the service. Practical artillerists had no confidence in the possibility of constructing guns of any larger calibre, which could employ, with safety, sufficient powder 10 give the necessary momen um to the immense reight of their halls, required to make them effective. Capt. Errickson, in the first effort, succeeded in so shattering the Merrimac as to render her unfit for another encounter. But he was not satisfied. He proposed the use of 13 and 15 -inch guns, in o der to render his work more fully complete and speedy. Admiral Dalgreen, hief of the Ordoance Bureau, earnestly remonstrated against the plan as impracticable ; but Mr. Errickson, aided by Mr. Fox, the assistant but virtually the head of the Nary department, assumed the full responsibility of arming the monitors with 15 -inch guns. The success of this still farther innovation on the previousIy ealablished rules of engineering has been most triumphantly vindicated in the encouater between the Weekawken and the Atlanta, in which the latter most formidable craft was disabled and captured in fifteen minutes. The caprecity of a Monitor to resist blows was most emphatica ly shown wheil the Weekawken lay for a.l hour before Fort Sumpter in the vortex of the most terrible artillery fire ever directed by the hand of man. The Weekuwken is armed with two 15 -inch guns only, with which she has proved herself to be the most formidable battery ever constructed, and as safe fur practical use, as a common field ba tery. Had the original Monitor been armed with a gun of that caliber, the
Merrinac would have gone to the bottom in less than ten minutes aiter the commencement of her fight.

Increasing the Picific Naval Forcr.-The Governm nt is making every effort for the speedy increase of the Pacific naval force. Fourteeu hundred marines are being

MINING-ANCIENT AND MODELN-IN THE HARTZ
This celebrated Mining Region is a monopoly of the Crown of Hanover, and the shareholders of a mine-the virtual owners of the metal raised-must sell the same to the Government, at a price, which is usually from one fourth to a third below its actual commercial value. These mines contain some of the oldestworkiugs known-dating back 2000 grs. Ample written records still exist of operations carried on, seven and eight hundred years ago. Eividences of old Roman workings abound, in the frequent unearthing of bronze eagles and busta, known to have originated with that aivient people-mementoes that have come down to the presentage from an era of civilization between which and ours has existed a night of ten centuries, during which the light of civilization aud of arts had nigh become tatally extinguished. The-associations that cluster around these ancient workings ure most strange and interesting, and bring forcibly to mind the Bible description of miang in the days of the ancient Jewish prophets. In these mountains are individual mines whose earliest workings date back five hundred years ago, and which still yield a plentiful supply of ore.
The location of the Harte Murntains is guite isolated, and neither the people nor the general face of the country have undergone any material changes or modifications for centoies. Modern engineering science and the late improvements in mining machinery and sunelting operations find very little favor with this pecrliar people. Even the more eiightened classes, and those who fully appreciate modern mprovements, are not in furs of any change in this particular case, from the fact that ample compensation therefor is sup-
posed to be derived from the greater avaitability of labor among a people so stolid that not even the rush of the iron steed would avail to awaken them from their Rip-Van Winkle sleep of ages. Even the stean eugine, that most powerfiol and effective of all modern appliances for the drainage of mines, and other purposes in that connection, is viewed with disfavor hy this people, and, in a stubbown atherence to
old usages, miles of tunnels are run at an incredible amount of labor to gain a few feet of drainage, when by a mere moiety of the expense, the same object and more, could be gained quite as effectually by pumping.
In no part of the world could steam be applied for drainage more effectualy than here. The water does not flow into these mines from sprimgs, even when carried to a very great depth, but enters by infittration merely, and consequently at a very slow rate. Tlee most wonderful and laborious excavations, in the way of adits for drainage, to be found in the world, exist in these mountains.
In the more ancient workings, the excavations appear to have been carried on with very little engineering skill, und, consequently are very irregularly driven. Some of the ancient shafts reach to an enormous depth, and excite the atmust wonder as to the means employed in sinking them without the aid of gun-powder. That important modern invention is almost the only improvement over the ancient mods of working which has yet been introduced into these mines. The skill with which the older workings are secared, howet er, is a matter of admiration, even to the modern engipeer. These mountains contain almost all the minerals but coal, gold, silver, copper, lead and iron abound. The gold is found, as in this country, in veins of ruartz, intermingled in
various proportions with small ģuantities of the baser metals as in California. Auriferons pyrites occur in considerable quantity.: The gold is occasionally visible to the naked eye, but not nearly as generally as heré. . Argentiferous copper abounds, but the the silver which it contains is secured by a rery laborious and expensive process. Silver ore is obtained here in considerable quantities, and is smelted by botz the hot and cold blast.

Horrors of War-Loss of Ltfe--The present War of Rebellion, in this conatry, has been sanguinary enough to fillthe:whole land with mourning, and yet there have been wars far more destructive of life. It appears from the best historical testimony, that of one million two hundred thousand men emrolled in the armies of France in 1813, only 100,000 were alive in 1814, and that the loss of the Allied Powers in the wars with Napoleon was, accordng to the London Times, not less than, "ten million of men in the
prime of life." France, in the same period, lost about six

## THE MINING SHARE MARKET.

The Mining Share Market, for the week just passed, has been Ixceedingly dult, in part owing to the general apathy which has prevaled for several previons weeks, but in is great meaure in consequence of the general stato klection in which this city bas taken an unusual iuterest.
Burning Moscow, Nurth American, Daney, Baltimore American and sheba, have heen largely dealt in. The two armer at advancing rutes and the three lutter at a slight deline.
Uphir shares havo delined somewhat in consequence of iretty definite infurnation that the fortbcoming divideud will ut be increased.
Gould and Curry has advanced $\$ 100$ per foot.
Potosi hus matvaced to $\$ 1,000$, with fair demand.
Sierra Nevada, clused at $\$ 90$, a deline of about $\$ 10$.
Duney shares have met, with umaterial decline, with large dransuctions. The decline is attributable to auticipated reary assesaments.
Butcher has been less dealt in than last week, but at om what improved rates.
Burnng Muscow has met with a fair business at an adance of about $\$ 20$ per foot, but attended with considerable luctuation.
Overman is still improving and closed at a large advance ver lust weeks figures.
Xellow Jacket closed at a slight depreciation from last veeks ligures, baving been in fair demand.
Wide West Shaies bave been suught after, and easily wought at $\$ 115$.
Keal del Monte, is in favor with a fow and has been sold tsulu; but little stock offered.
C'tah, dull at 5 5̄ ; Pond, ut $\$ 35$; Fulls of Clyde, $\$ 5$.
Sheba, Humbuldt, has been more offered, and declined to 8120, alter selling at \$160.
Uncle Sann, Gold Hill, fluctuating from $\$ 82$ to $\$ 190$, and losed at $\$ 95$, with a weak Market.
De Sotu, but little enquired for.
We subjoin the principal sales of the week.

of the former is being offered; the impression being that stuck in such mines is yuite underrated in the market. The returns from foreigen shipments winch will suon begrin to come in fur varions mines, but recently opelled, and the result of the opreations of the simelting Wurks at Antionh, which will be hearu trom in the course of the present month, will, no doubt, soon exert an important inducace upon copper stocks.
Considterable interest is being manifested in this new branch of California maning, in Finstern cities, particularly in IBuston, where the press is devoting special attention to the subject. The large amonut of ore alreadygoing lurward and the encouraging prospects for the future give the earnest of early and full return freimhts, from this port. 'This important feature is being doly appreciated by our friends at the Liast.

A sale of a claim in the Lancha Plane Company, is reported the past week, ss huving taken place in Stockton, at 6,000 (claim 300 feat.) The Koystone is held in that market at $\$ 130$, with but a limited supply offered.
Reports from the Nothern couvties state that the location of copper clains is still going on as much as ever. Tho work of develupment is also progressing. The Union Company are taking out ore in considerable quantities, and preparing it for shipring. They will not send any forward until they have about 100 tons, as they intend to ship it to the Eisst themselves. They have a considerable amount now ready for shipment.
There are as many as a dozen mines in Klamath and
Humboldt counties that expect to be ready to ship ore very soun.
The Well Lead, in Nevada county are taking out large quantities of ore. They are sending the in inferior qualities only to the smelting works at Antioch. They retain their first class ore at the mine for shipment to the East. T'ney have a contract for the delivery of 1,000 tons of low grade ores.
The Last Chance has considerable rock out and will soon commeuce shipping.
The Burra Burra mine, two and one half miles south from the Well Lead, has a shaft down fifty-one feet with good infine chimney, of small dimensions, but gradually opening out of black oxide, from which some I50 lbs. bave already been taken. The same presents a most promising indication of a stroug lead of sulplurets, which they will duabtless strike soog.

## 

At tho Sun Frumetnco MAutig stock Board, For the weck ewtis siep. 8, 1803.


CURRENT OF THE NIAGARA FALLS.
The immense force of the current in Niagara river, near the suspension bridge, is strikingly illustrated by one or two facts reluted by a gentieman who attempted to sound the river at that point. We may remark bere that the current is so strong that the river cannot be sounded at that point, and probably never will. The attempt referred to was made with an iron of alout ten pounds weight, ano attached to a No. 11 wire, all freely suspended, so as not to impede the fall of the weight. The experimenter says: "I let the weight fall from the bridge, at the hight of two hundred and twentyfive feet. It struck the surface fairly, with the point down, and must have sunk to some depth, but was no longer out of sight than a second, when it made its appearance again on surlace, about oue hundred feet down the stream, and skipped along like a chip until it was checked by the wire. We then commenced havling: in slowly, which made the iron bounce like a ball, when a cake of ice struck it and ended our sport. I am satisfied that no metal has sufficient specific gravity to pierce that current, even with a momentum acquired by a fall of two hundred and twenty-five feet. The velocity of the iron, when striking, must have been equal to one lundred and twenty-four feet per second, and consequently its momentum was near five thousand pounds. Its surface opposed, to the current was fifty superficial inches. This will give an idea of the strength of that current, and at the same time hint at the Titan forces that have been at work to scoop out the bed of the Niagara river

REESE RIVER MXNES.
Reports of a most favorable character continue to reach us from the Reese River Mises. Probahly no section of our widely extended mining region is attracting so much attention at the present time as this.
Some idea of the rush to this region may be formed from the following item clipped from the Reese River correspondence of a city contemporary, writing under date of Aug. 17,1863:-
Of the conutless number of gold and silver mines supposed to exist, not jet discovered, in that vact region' of country, comprised between the Rocky Mountains and the Pacific, few regions or districts seem to be attracting so much attention and causing such excitement as that of Reese River, the mining
headquarters of which is Austin. One of theigreat troubles here seenis to be the want of additional stage facilities to accommodate the rush of persons conning to this coun. try- Notwishstanding that this Overland Mail Company, which employs over 200 stages and mumerabl- horses and mules, on a line 1,915 miles in 1 n ath, running directly through this town, where they land from six to twelve pasvengers daily, there is seldom a day. when the stages leave Virginia City t at there are not from three to six passengers left behind. To secure a passage on any particular 'day, it is necessary to register one's name three or four days ir advance,
Eleven four-ox teams laden with machinery for Reese River, passed through Dayton August 27.
The Virginia City Enterprise of August 23d contains the following item :-
There is on exhibition at Lewis \& Spaulding,s saloon, under the International Hotel, twenty specimen bricks of bullion from the Reese River mines, produced from the following claims: From three tons of the Florida claim, from unassorted rock, $\$ 2,573$; from ten tons of the Morgan \& Murry claim, uuassorted rock, $\$ 3,18140$, from two tons of the North Star rock, nuassorted, $\$ 554$. The above rock was worked through the mill of Messrs. Buel \& Co., at Austin. Two more mills will be in operation in Austin, in about a week.
The Former of this city, of Saturday last, says that a quantity of ore recently brought down from the Dacotah Ledge, a-sayyed by G. W. Bell, yielded $\$ 4,99150$ to the ton.

A recent crushing of two and a half tous of rock from the North Star ledge, at Buell's Mill, in Austin, yielded \$500. The crushing of $21 / \mathrm{e}$ tons from the Florida ledge at the same mill yielded $\$ 1980$.

## 50 lbs MIARINE and

Fire-Proof Paint,


 cheapar Lasa any other paint.

## DIRECTIONS :

For Decks of Shups, use two parts Mineral Paint, one
 three parts Mineral Pitiut, mis with Coal Tar and apply it hot. sale by all Ship Chandlers and Tradesmen, in boxu of 50 tbs . each, or by the Pacilic Metallurgical Works.
When used on Ronfs, Buildings, or Feoces, it is equa
to coreriug them with a coat of Stane, being perfectly to coreriug them with a coat of Stons, being perfectly
Fire-Proof, and costing less than any paint. Fire-Proof, and costing less than any paint.

## DIRECTIONS :

Hódse:- Mix three parts Mineral Pant mith one part
white lead, thin with Linseed oil: if a ligbter color is White lead, thin with Linsecd oil: if a ligbter color is
wanted mix liess paint , mare lesil
ROOOF:- Five parts of Miveral Paint, one part white Lead; mix with Lioseed oil. Put it thick on a tia Roos Lead; mix with Lisseed oil Put it wick on a ta Roor G. T. Fovque, Suporintendent.

WORES, North Beach; Office, 509 Sac ramento st., San Frauciseo.

## GENERAL NOTICES

## DR. H. AUSTIN,

DENTIST,
No. G33 Wnshington street,
Betwoen Montgomery and Kearny, (over San Fraucisco
Baths.)
ave recently received from London $n$ New and Beautiful Vulcinito (ridia Rubber) for Artincial It is light
which is far superior to any other over used. clonuly and durable, and of a ustural color, The chea)
est and best innterial for teinporary (and in many casos) permancut Rets, Alf nperations thoroughly performei
gad at reasmable prices,

## D ESK S

Office Furniture,
UF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE,

No. 423 California St., San Francisco.
office jobbing, of all Kiods, atteuded to

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the saoramento agriculiural state fait ALSO; FIRST PEEMMÚM At the San Francisco Bay District Agricultural Fair, 1862

Manofactort, mioursatik and:|rimtar,
No. 44 Leidistont street,
Oppositit the What Cheor House, San Franciseo.

## CHARLES GEDDES,

 ARCHITECT,Cor. Montgomery and Bush Streets,
Over the Mercantile Library Ronms,

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN,
No. 422 Califorvia street, corver of Leidsderif
Drawings of Monsis made for: parties applying for pat
onts at Washington or Lundon.
mar 282 m
$\overline{\text { New Patent Agency. }}$
WE HAVE CONNECTED WITH THIE The Patent Agency Business,
 ubw us, We have an Fxpericuced dgent at Washug-
ton, which, tngether with our own experientu of severn)
yonrs, renders the
Mining and Scientific Press Agency
The most rlesiruble placitumato npmlication for Letters
 Office of the "Mining nuld Seientific Prefs, Ronm
No. 57 , Government House, corner of Washington nud
Saukume strents, SaH Francisco. EWVR \& SBllH.

FORETGN PATENT'S OB'AINED
By application at this oflice, Ronm 27 , Government House
EWFR \& SMITB, solicitors.
NOTICE TO INVENTORS.
Inventars wishiug to file Cnveats should apply at thit
Offce, Room No. 57, Goverament House. Torms mundy-


PATENT RIGHTS.
Pritent Rights Bought and Sold, At the oflice of the "Mining and Scientific Preas: Apency
EWER \& SMTH.

- MPORTANT TO INVENTORS. Inveutors who obtaiu their Patents through this onice
can have their luventions illustrated and descrined iu can have their laventions. illustrated and descrited in
he columno of this paper. Fris of clarge, liey mireoly





> ventres


## GENERAL NOTICES

## HAYNES \& LAWTON,

IMPORTERS AND DEALERS IN

CROCKERY,

GLASS WARE,
FRENCH CHINA,
Coal Oil. Lamps, Table Cutlery
C工OOKS
Silver Plated and Britania Ware,
ETC., ETC., ETC.
NO. 516 SANSOME STREET [CORNER OF MERCHANT,] San Francisco.

## WHEELER'S Amalgamating and Separating Pans.

It is acknowledged by all who have examinol the prin-
ciples and witnesed the operation of thene Fans, that ciples and withessed the operation of these Fans, that
they ate decodedly superinr for triturating and amalgamating purposes to any other in use.
The minst important principle connected with the ope-
ration of these puss is the separatinu of the triturating ration of these puns is the separation of the triturating
process frum th: $t$ of extracting the a malyam form the
 ses fion the passing of of the same ill combinution with cleaning up By the introduction of ute sipparating Pan
to f llow the trituratien this luss is eutiroly aveided. In Whrkng these machinos there is no apprecable loss
fuicksilver, and hence nune of tho precious metals.
Where theso l'ans hare been introduced and operntel by the हide of others on sands from the same vat, the of netals over its compretitnis, as well as a still larger parceutuge iu the amount of work performed.
*.* These Tans man be seen in daily nperation, at the
Stiper's Foundry, on First street in this city nterested are invited to call aud examine for themselves. 16-tf ZENAS WHEELAR.

## Wm, P. TAAFfee,

 maporner and jobber or Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.Cor. Front and Sacramonvo streeti, San Francisco.

## REMOVAL.

OFFICE OF THEC PACTFIC MeTAL Having enlaryed our Works at Nur th Beach, we are
now onubled to peduce from 10 to 16 tons of Siver or
Gold radk Gold rack per day,
Gold atd Silver ore, and Sulphuret Assayer versmithe' sweepings reduced or purchasod
 509 sacramento strent, near Saname.

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. of Webb,

## METOALF \& HUTOHINSON'S PHOTOGRAPHIC GALLERY,

## 650 Washington st. Thy

Haviog retted the above rooms the Firm aro now


## card pictures.

As we have every faclify for producing those benati-
ful pictures, in anl their difierent varieties, we Lave ro

## \$3. Per Dozen!

Large sized Photogrniphs $\$ 3$-Extra crpies $\$ 1$ each.
AMBROTYPES in ail Slyles and prices. OI.n Prctcress cnien with curo and accuracy, in any
style tesired. Tarticular atention paid to, picturce of style de
Chuldren
rietur initures painted in nif or Water C Clours, and retuucb
in india
aug

International Hotel, Jagizon Strber, …...- San Francisoo FIRE-PROUF BRICK BUILDING.

Most conveniont in the
ing, Busiupss nts. \& Places of Amusomen
OPEN ALL NIGHT
City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fin'o Bathing Rnoms nitached to the Barber Shop
Warm and Cold shower Bathe Free to Guests.
HOROLGHLY RENOVATED AND NEWI.Y FUR-
Hished this spring. Evory Room onen to nished this spring. Evory Room opens to lis Pight
Air. Each room is furvinhed with a first gunity Phtent suring bed nad Har mintressea. The luternation11 offers to gucals the greatest number and

Best Furnisned Famly Rooms ind sett as Good $A$ tahle as nay Fouse in the chy, I am doterminod that the Intermatminal slisil be tho perior to auy lihe entablishment in the atate, aud shal\} him to raceit a coulinuance of the popniar favor it hat
ettioyed horetofore. It will be conducted on temperance etijoyed bo
Pronciples
F. E. WEY GANT, Proprietor.

## Tremont House, <br> 418 and 420 ..... Jackson Struet

TVEIS FINE, FIRE-PROOF RUULDING OFFELES MANY I advantages to the travelor for onnverietice. It is and ubut the same distauce from the priveipal plates of Amusernent.

## The City Railroud Cars pass the Door.

The House is comductnd on Temperance Principles,
Whicu secures to our gubets quite.
The prices for board and Rnoms aro very minlerate-
by the day, mual or week. Wesmict a call from alk E. E. WEYGANT, Proprietor

For tbo occommandition of my many guests 1 have ta-
 carty on the 1 wo housea in comnectinu, sn thai Trivelers
wishing to put up at either house, may take the 'remult wishing to put up it either house, may lake the 'Trumbt
or Interuntionul Hotel Coach and be Laken to eitlice Huse with their baggage, Fres. F. Fh. WIRTGANT.

## THE RAILROAD H O U is E. <br> Nos. 46 and 48 Commercial and Clay Sts., SAN FRANCISCO. <br> H. T. FELTON - - - W. C. MINOR,

PROPRIETORS.
The above Honse is a Fire-proof building, with Grantte Front, and kept on the Eurojean lian, with hoard and lodgling by Day or Week to surt the cunvenience of our

The Rooms are handsomely firmished, upplied with Patent Syitig Beds, and Hair Mfatraweos, afording very snperior accommodations for tamilies or single juersons.
The Table is supplied with the best the marketaffords at priees to suit the times.
The Rail Rond Fnuse Cohel is always in attentiance at the stenmers to convey paskengera and their baggage to the Fithe Frec of Charge.

## P. M. S. C 0.


 FOR PANAMA.
The follnwing steamships will be dispatched in the
month of September, 1883 . month of september, 1863.
Sept. 13th, - - Stcamer Oriraba.
Sept., 23d, - - Steamer Golden Age.

Will lesve Folsnm Street Wharf, with Passengers and Tréasure, for l'inama

AT 9 O'CLOCK, A. M., PUNCTUALI,Y
And conncet. via l'anama Railroad, at Aspiawall, with
teamshilis for New York.
For Freight or passage, apply to


EXCELSIOR IRON WORKS,
712 Sansome street,
GALLAGMER \& KENNEY, Bauufacturers of all Elids of
Architectural and Ornamental Iron Work,


Reasmable l'ricen.
Ordern trom the country promptiy

FULTON FOUNDIRY \& IRON WORKS

## HINCKEET \& CO.

Steam Engines Quinarz, Floor and Sall Mris; Cast Inoz
 And all Exivs of Mmensezr, Erce, FIRS'T STREETT,
Betweky Makker aiv Nishos............SAS Francaisco.
\#* All kinds of tron and Brass Castryas furmiahed
at abort notice. Evury style of Finsmuse to Iroll when
 D. B. Hisckley. Wu. E. Wormu. Wze. A. Frid.

MOYNIHAN AITKEN,
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts,
Sau Fraucisco.
 $\underset{\substack{\text { colvid } \\ \text { terme. }}}{\substack{\text { ent } \\ \hline}}$

## P U M PS!

HARRISON'S
California Lift and Force Pump,

 aud least
vented.

ALI SIZES;
Capable of throwing front ONE HNDRED 20 FTVE
THOUSNDD Gallous per Micute-For sule by
C. H. Harrison,

Phienix Oil Worise,
517 Front Street, San Francisso,

FOLNDRLS \& MACHNE HHOLS.
PALMERE, ILANSCUM A CO.,
GOLDEN STATE IRON WORKS,
No. 10, Firse street, Ban Eranclico,
Faroish Castiags and Machinery of all kinds
Genuink White Iron Suoes and Dieg. PAIMER, HANSCONB \& CO.
To Quartz Miners. Knox' Improved
AMALGAMATING PAN, PALMER'S PATEN' STEAM CHEST. $T$ He. above mibination sectures the host





The public ara informed that Lettors Pratent have beon
graiten lice undersigned upon stuan Chest Fiviles Bint-
 aro cationnd against making, buying, usmg or silling
thu same whithot his cunsunt. W. A. PALMtR.

Jоцх P. Galhagher......................Jonkir H. Wek刀
GALLAGHER\&WEED,

## BRASS \& BELL FOUNDERY AND <br> LOCK <br> EACTORY.


Foundry, ull kimd of Finishing, done with neatness and dispatch,

 patterna, on hanat and made to order.

All Jobs promptly attended to.-Prices moderate.

## Miners Foundry

MACHINE WORKS,
Firat St, between Howard \& Folsom,
E it the stitc of Calloruith whil be furnighed with dis
patch ut the Miners' Foundry and Machine Works, as ; Stcam Eugines and Boilers, Flour, Suw and Quartz
mill maclunery, Jining Pumps, Amalgamators, Betorts, mill machinery, Mining Pumps, Amalgamatora, Retorte,
Etc. Particular attention will be given to the manufacture
of Mochinery in sectivan, designed for places of dificult of Muchinery is sections, designed for plices of d/ficult
accers. Various murlels of पuartz Crusliers, Amalgama-
tors and Water Wheols-some in operation and on exhibilion. Partics desiring in teat their ores practically, it sinall quantities will be afforded amplo fucilities, free or
coast. cost.
 are cordially invited to call before contructing else where HOWI.AND, ANGEL \& KING
vary 23,1869 .
San Francisco, Fobruary 23,1869 .

## San Francisco Machine

## IRON WORKS!

## 


 miniug purposes, Wine Presses, Agricultural implements
etc, eto, and Castinge of all descriptions made to order steam Eagines exchavged and for sale by
IEVOE, DINSMORE \& CO.
REPAIRING promptly attonded to. REPAIRING promptly attendod to.
FOR $S A L E$.

FOR SALE,


FUUNDRIES d MACHINE SHOPS.

## VULCAN IRON WORKS COMP ANY

P. Torquet, Munager,

STEAM ENGINE BUILDERS
BOHER MAKERS,
Iron Founders and General Engineers,
No 137 \& 139 Firit atreet, Snn Franclaco.
Pumping, Holating, sliwing and Quariz-crublitug
Machisuery, Maclifuery.
Shote und Dies of the hardest iron,
Russia iron Puuched Screena.
Stenabbat Machivery: Suw, Fhur und Sugar sule High und Law l'resure Bothers of all sity ies. improvements.
W. T. \& J. GARRATTT,

City Brass and Bell Founders
Cor. Flirst \& Mariket sts., san Francisco.
B ABET METAL CASTING: hile ENGNE, FORCE




## D. MORRIS, MACHINE SHOP <br> 227 Market, corner of Beale Street.

Manticteror of

WARRANTED FIRE-PROOE SAFES Sill Work, uf all kinds made to order, All kinds of
jella

## LEWIS COFFEY AND RISDON,

 STEAM BUILER AND SHEET IRON The only exclusively Boiler Making Eitablishment on the Pacitic Coast Uwaed und conducted by Practipal Boiler Makers. All orders tor New Work, the repairiugor Oh Work, executed us ordered, und warrouted as to quality.
Old Stand, corner Bush and Market Streets. Oyposite Orieatal Hotel, San Francisen, Cal. LEFIIS CofFEY
[HEODOR KALIENBERG

## Maker of Models

FOR INVENTORS.
 Vtan ieal Instrumpats, scales, Weights, etc.; St
Stamps, Dies anul Me sinkiug, Embossingstamps.
Reparing of Machinery promutly atteuded to.


## HIRAM WRIGHT, pICK MAKER,


NO. 1 1a1 POET STREET, SAN FBANCISCO,
[Bet ween Montgomery and Sansome,]
Wulre can be bad a superior Pick for Mlivers use

As he manufactures all his picks under his own pergonal As he manufactures all his pitks under his own ho warrauty them as heing made of the best material and by the best workmanship. | $\begin{array}{c}\text { Orders attended to and filed promptly aud with dis- } \\ \text { patch. }\end{array}$ |
| :--- |

## WRIGHTS PICKS.

$J^{\text {OHN WRIGIT, of Sacranento, has cstaturneed hum. }}$
 prices. Pick Eyks of the bestiron firmished in any quati
lity, at low rates Orders from the country promply
attonded to. N. B. Noue genuine unless alamped with


## CALIFORNIA TOOL WORKS !

John Weichhart,
All Kinds of Edge Tools, Etc.,


A Parisian inventor has off red to the P0-
lish Conmittee a new surt of fuluinant, which mill explude afir being un hour under water. These bumbs can be made in the midst of the woodd, with urdimary materiuls, and at low price, and it is said that many persons might be injured by a single discharge.

A New Londou man bas invented a weapon that may be iuserted in the handle of a ludy's parasol, and will drive a ball through au inch und a half plank at the distance of ten rods.
A Bertrsir officer has invented a new rio fle ball, charged with solid phosphorus.Whes lodged in any object it burns with great fierceness for sume time.

Anotuer Fall at Niagra.-The St. Catherine's Journal says that on Suturday night, the 18 th of July, with a sound louder than the discharge of a park of artillery, a large section of the rock on the north Cauada side of Niagara l'alls, near Mr. Iavis's 'I'able Rock Hotel, fell into the yowning abyse below, giving the Falla on that side a more decided hurse-shore appearance than they had befure.

Eye, Far and Throat.

> DR. DE CASTRO, Oculist and Aurist,

W Yo Mis Practised on in NEWW




Self-acjusting Artificial Tympanum,
For the relier of deafiners, attended by losh or injury o
the membrana ty muni, and for the cora of dishorgo The membraua tympuni, and for the cura of discharge of " Deufuens Prachusaly Illustrated as to its Nature and Treatment," etc, Tlie seff-atjusting Artificial Tympanum was first introduced to the Luticc of che profession at the meoting of the Medical sociely of Lullou, on the 20h of Novernber,
1863 . An athmatea discussiou ensued na the reading of mouy to the succens of the remedy snd the inguortanco of
She. Baker Brown (membor) bore teatimony to the SelfAdjustiag Artificial ty mpalluta, as he hat observed the
immense benat a young lady frieud of his had received tromit. She was iu foct, quite deaf, ind in a most misorable siate; the effectof the tyinpunum was instan tane-
nus-nuite like a miraele. Five roore lestimonials frum Members of the Medicul College, New York, and the prin-
cipal cities of Eurnpe Operating foomes. ENION BLOCK, coruer of Markatand Kearuy struets. En trance on Market street.

Wh Mr. Editor-Maving been nfficted severe cold, and for the last nonth sulfering frum the
mom excrutiating paius in my ear, I was obliged to come mom excrutiatiug paius in my ear, I was oblıged to como
duwn to sun Francisen to seek relief. After a physioun's duwn to sun Frabcisco to seck relief. After a physioun's
recomediation to wait on Dr. De Castro, on the coruer of
Kearny ind Murket streets aud and it is with the utmost ploasure 1 cun say my hearing was euducnly and withmen pain entirely restored. I deem it my duty to make this krown to tho bublic, and to recommend Dr. De Castro's bisilf as an nur ist, Naps Vally.
JOHN RECSE, Naps
James Callaghan, wituess,
Sau Francinco, July 30th, 1883.
[From the Daily Alta.J.
Fin'ra Daty Alta: $\quad \operatorname{san}$ Francisco, June 30th., 1863.
Permit mu: through your widely circulated Journal, to suy, thut my daughter shiry Elien, has been allicied with
deafuess aiuce stie was thirten months old, and that she has been a member of the Jeal and Dumb Iostitute since it was nrganized. On taking her to Dr. De Castro, on the coraer of Kearney nnd Jarket Sireets, and undergoing un-
 way to get permaneut retief. The remult, thuas far, is sat14tictory; and T deem this not ice due to Dr. De Castro for
his skill; and woulf recommeud all parties similarly afthated to give liman trial My daughter has at diforent limes beon nuder tho care of the most sbilful pliysiciuns
and unists in Califinam, but up to the period of visitiog Dr. Le Castro, recely ed the benffit. CLAS JOHN P. WRIGHT,
812 Green Stree

## APARTMENTS.

FORNINHED APARTMEMNS, WTTH, OR WITLOUT Buard, at 1018 Powell Street, befween Clay nud
shington struet. Permons desirous of a respectable home will do well to apply desirous or a respecable jyb

MINING NOTICES

| Winoma Gold and Silver Mianing Comphoy - The tirst andtul meeling of the stockholders of the Winona Gold and silver Milung Company, will be held at the Company's office, No. 428 3fontgumery sirect, for the election of bive Truatecs tor the enning year, on the 19 h day of Eeptember, 1863, at 7 后 P. m. By order of the Board ot Trustuen. M. G. Eilmore, Sec'y. sug 24 |
| :---: |
| Red Jacket Mining Company.-At a meoting of the Board of 'rustees of the above company held July 7, 1863, the first assessment of Five Centa per share ou the capilal stock was levied, payable immediately in United States gold chin, to the Secretary, office 420 Montgomory stivet, Room No. 2. By order of the Buard. <br> J. W CROSI.EY, Secretary. |

Office Table Mowntaim Copper Minin
 Cents per snaro was servicil upon the capital winck of said coin to ato Seuretury, nt the oufice of the Complany, No.
 Grey Kelge Gold and Silver Mining Compraly, Office No. 5.28 Hongoumery street, san Fritu essen-Al stock on which assecsment is not imid will
2dvertised
DAY delinquent on the TWHNTY FOURTI

Office of the Niagara Consolidated Gold and Siver Biaing Company, Eldorado Cauoul-Notice it levid an assessmeut or Tweuty-five Ceuts per share up ou each and every sharo of thie capital sterek of the sai Compay, payable in U.S. gold coin immediately to the
Socrctary, at the office of the Compauy, Ao. 528 Mont Socr ctary, at the othive of the Compauy, No. 528
guinery streot, or to the Centractor at the Canou. Snu Francisea, July 20. 1863. G. ELHORE, Secretary.

RJEHN, HEMNE \& CO.,
ASSAYERS. Office, Montgomery street, cor, of California

Assays Made of ores, Minerals and Metals.

RATERRED WIT FMTMASGION to
Mossrs. T. PARROT \& CO., $\mid$ Moserv AlSOP \& CO.
 Cfas. F. RIEFN, lite U. S, Bralich Mint, gives Lessons in Assey liga, asso in Maneralogy and Cluemistry as far as re
quired to become a practicul Assayer.

## THE EUROPEAN ORE REFINING

 COMPANY. Quartz Mill and Furnaces, Bryant Stre Crossing Third, San Francisco ReCeIVE ALL KINDS OF
## ORES AND MINERALS.

## In large ur small quantitios, for such Experienced Trea

 aeat by theLATEES EUROPEAN METHODS,

## CAREFUL ANALYSIS,

At their works, to be the most Effectual in oltaining re Hiable results, and adterwards converting whateror pre cious Metals they may contain, iuto markotable Ingots. Ne The South Park, and Folsom and Eearnystruet Ca pass Bryane strcet.
au31
El Paso District, Los Angeles Oounty,
MINING AGENCY.
C. W. TAPPAN, GENERAL AGENT,
"Head Quarters," Mesquit Springs,
Will attend to any busincoss connected with theso mines
for a reasouable cousideration. Liemters or Exquiry cuntaining Revilute or Postage
 The subuseriber has a cirrefully prephred map of all to lodes in the district, a portiou of many of which are for
Bais at very low ligures.
For firs met, Esso, 425 Davis St., San Fraucisco Cal. El Phso, June 21, 1863.
au31

WANTED, GUTTING JEWELRY,
\#y frontier A. Detiercy

MINING OARDS.
ALEXANDER STOTT,
MINING SECRETARY 612 Sansome Street, San Fraucisco.

Secretary nf-
Horse Snow, Silver and Coppor, Monte Diablo. Geveral Jacksox, Gold and silver, Devil's Gute
T. C. Sanborn \& Co, STOCK BROKERS,
No. 630, Montgomery Street.
$\mathrm{O}^{\text {PHIR SILVER MINNG STOCK, }}$
GOULD \& CURRY MINING STOCK, chollar mining stock, CALIFORNIA STEAM NAVIGATION CO'S STOCK, BOUGHT \& SOLD.

## ғ. мulurs.

MILLER \& COLEY,
Stock Brokers \& Mining Agents 327 MONTGOMERY STREET;

Estute Sales Rooms, San Franci-co.
AlL. KINDS OF STOCE AND MINING Eusiness attended 10 with Promptness nug17

## L. F. LELAND,

STOCK BROKER, No. 621 Clay street,
Offce Hours, 10 to 11, A. M.; 23/9 to 3\%, P. M.

Member of the Sau Francieco | So-29 |
| :---: |
| $j=$ |

E.T. PEASE, R.S. CORNING, SAM'LC. BOWLEY

PEASE, BOWLEY \& CO,
Real Estate, Stock and Exchange
BROEERS,
$69 x$ montgomery street, saim Francisco.
Legal Tender Notrs and Minyna Stoces, BOUGH'J \& SOLD.

AGENCY
For the Purchase and Sale of
MEXICAN MININGSTOCKS At No. 411 Clay Street, San Frauciseo
Office or the pena and da marronena sil. Calfornia.
the porsions are invited to call and examine ores from the above milues.
jel3 Wh. FAULKNER.

## New Bedford Copper Company,

$T$ Agents for the ubove Compuyy, are receiving reg. olar supplies of their superior nianuifacturts of

Sheatning Copper;
Brazier's Copperf;
Copper Bolts
Yellow. Skeathing Mletal;
Copper and Composition Nates;
Which they offer to the Trate at the lowest mark
rate, aud on tho most favorable terms.
je-29
105 Front sieet, San Francisco.
R. W. FISHBOURNE,

## PRACTICAL LITHOGRAPHER,

ENGRAVER AND PRINTER,
 Cr Sut Franciscon State and Gonuty Boods, Stock Cirtificates, Bills of Exclaage, Bills of Ladiog, Bank
Checks, Lailscapes, Architectural and Marine Views
Show Cards, Inbels, Etc, executed with neatness an hispatch. N. B. All orders in Crayon Work prompll
MIN IN G
N. B. Mining stoek Certifictos executed with prom

MYERS \& DAGGETM'S
Mining and Stock Exchange,
Mining Slocks of All Kinds Bought \& Sold.
Business connected with Mining Stocks of every descrin-
tion promptly and cunficeutially attended to.
tion prompty and cunfiaeutially attended to.
$* *^{*}$ Austractis of Titles Furnished, Etc.

BUSINESS CARDS
Napoleon Copper Mining Company,

## Capiral stock. <br> . $81,620,000$.

Lengtb of Lead $\mathbf{2 , 7 0 0}$ Fuet ; Leation of Mine, Gophe District, Calaverns conuty; Iucorporated

President
Secretary
Treasurer
Supararer
Sudendaut
..........
...F. MacCRELITTSH
perivtenda

> TRUSTEES, of Alta Chifire
F. MaCRRELLISH, of Alta Chifirnia
A. J. MOULDER, of A.J, Mhulder
A. J. MOWLDER, of A.J. Mrulder \& Co,
R, G. BROWN, of Grorer \& Bakor S. M, Co,
J. C. DUNCAN, of Dmueat \& Co.
J. C. DUNCAN, or Dmucau \& Co,
R. C. ALMEN, U, S, Cannissary Department,
J, W. TUCKER, of J, W. Fucker \& Co
$\mathrm{J}, \mathrm{W}$. TUCKER, Of
W. WOOIWAR
S. A. Holconsibe, of of Alta Calitornia
S. E. HOLCOSBE, of Folcombe Brahers,

Omee of Company, No. $\underset{\substack{\text { je29 }}}{\substack{4020}}$

## The Pacific Mineral Compnay

$\mathbf{M a}^{\text {are liberal advances upon the ores of }}$ Copper, Sluver, Tin, Nickel, Coblet, Zinc,
Lfad, and Sulphurets containing Gold.

 to prospect the same will receive assistance, if, upoll ex mination, such lunds aro deemed sufficieutly valuablo

OFFICE, No. 1, ODD FELLOWS' HALL,
MARTIN \& Co.,
OFFICE--224 Montgomery Street, Up Staira, will contract for the
Purchase of Copper Ores Assaying 8 per cout and upwards of Copper to the Ton Wo will make ADN ANCRS upnn Ores of COPPPR, TTN

## Dit NICKRL <br> gnments if desired by the connignors.

## Henry Martin, <br> J. F. Greensain, Sau Francisco Poat Oficz, Box 1269. je 1.

To Mining Companies about to In-
JOHN ARMSTRONG,

> Conyeyancer,

610 iderchant Street,
Is Prepared to draw with Acouracy and Dispatch,
Certificates of Incorporation-Trust Deeds, and all other Papers,
aecceasary to the correct Incorporation of Mining Cum punaes, ou relsonable terms.

Adrcess us above.

## TO MINING CONIPANIES!

Offices To Let SUITES OR SINGLE ROOMS,

> Government Block, N. W. Cor. of Sansome aud Washiugton sts. au-24

San Antonio Gold and Silver Mines,
FORWARDING \& IIINING AGENCY,
SAMUEL SMITH,
OFFICE-Northb West Corner of Front and Clay

 residout Agent at San Antoun, and information for

## H. C. KIBBE, IMINING SECRETARY,

Commissioner for Nevada Territory, 542 sacramento st., cor. Monitgomery (Armory hall.)

## BUSINESS OARDS:

SOUTH PARK.
Quartz ITill and Reduction Work

 je13
E. F. CLOUSER, Secrotary

## W. W. HANSCOM,

Steam and Mechanical Engineer,
Designs furished, and Drawings made fo Engines, Mills, Water Wheels, Mining Ms chinery, etc., , te.,
At Golde
aug :
State Iron Werke,
First Street, Sau Francisco,

## To Mining Companies,

TOR SAEE-ASTEAM ENGINE AND DBILER. T

 iach huw Moer Irvu, and weighs about 5000 prounds.
Buth Eng one eud Boiler are in perfect urder nud full guaributeed. Apply to
Sap̣ Francisco, Jane 13, İ. H63.
MINUING CERTIFICATE LOST!
Certiate for Ten Shares, No. 33, dated Jul The finuter will be suitubly rewarded by leiviug it room 24. Guverament Bluck

LOUIS EDWARIS.
MINING \& SIENTIFIC PRESS.
THE ONL,YMINTYG, MECHANICAL ANI SCIENTIFIC PAPER ON THIS

CONTINENT.
THIRD YEAR: VOLUME VI.-NETV SERIES
A yew volume of this extcnaively circulated pape
 diniug, Scientific, Mechavical and Inllastrial pursuik together with aeveral original engraviugs, of new
tions, etce, prepared expressly for ita colunus.
 With the intorests of Scence, Arts, Agriculture and Con
merce, nud noy general information: that may be of in terest to the reader; and it is the intantion of the pr. prictor to sparo no pains or expense in making it equ in interast and valuable Information to any papo

## The Mining Interest !

Whil ind it of great value, an it will contaln all th newi appcrtainmg to Miniug, the prices acd salce or 31
 purpme, aud ni cev.
vico to the Miner.

## The Inventor !

WIII and it an excellent nuedium for tho purpose bringlag his fuveution into uotice, of ascertainiug th
progress of invention in this and other countrica, an also of recciving uny information that may be neetel
 great exnorience far Patent A Agenth, together with fite ition at Wa hin
with dit phch :

The Mechanic and Manufacturer f Will be grratly benefittcd by its perusal, as its co ings of new machincs and inventions, together with Ings of amount of reasilig mater appertaining thureti,
lage are coustantly rocivine the best arientific juul We are coustantly receiving the best acientific jou
nals from all quartera, from which we hall continui to extract whatever may be of benefit or interest

To Chemists, Architects and Millwrights. This journal will be invaluable. All new discoveril in Chemistry will he given, and a large amount of infol
 lers wiltart be negiecte, engravings wil ime given
agricultural $i m p l e m e n t s$ and the farming interest goll orally will beamply discussed.

## Terms.

To mall subscribers:-Four nollars per annum
Five Copies for Six Monthe, 88 .
Ten Copics for Six Months, \$16.
Ten Copies for Twelve Months,
Ten Copies for Twefve Mnats,
Trenty Copies for Twelve Moonths, \$56.
or all elubs of Twenty and over, the yenrly subser otion is only \$D $^{2}$ so- Names can be sent in at diffr

Ronm 57, Guverument Hocse, Corner of Washiug
and Snasome streets, San Francibco.


## REMOVAL

The Office of the Mining and Serentific Press, has been emoved to Rooms Nos. 56 and 57 Government House, corer of Washington and Sansome Streets. We have been hduced to make this change of locution, not only with the fiew of securing m.re room and better accommodations for urselves, but chiefly to better accommodate persons having posiness with the office. Our location is now central, easy access, and in the direct way of the chief travel of the ty to and from the Post Office.

## DEODORIZING COAL OLL.

A Patent has been taken ont by a London chemist for a rethod of removing the offensive odor from coal oils. This rirable object is effected by means of nitrous acid in cominstion with slureads of iron, and the gas so formed is causIt pass into the bottom of any vessel containing petroleu, until the entire mass is completely saturated, when the ssel containing the oil is closed, until, by testing, the sames are found to be free from any ofiensive odor. This deforizing process is also capable of being applied to the oie connection with the procesis of distillation; so that the me may be introduced lirectly from its crude state into an orless oil. The invention is a very important one, and the all oost of its application must soon render its use univerin the manufactare of coal oils.
Directions. for usina Kerosene Lampg.-Tbe Board of palth of Brussells give the following, among other direcas, about the proper care and mode of using kerosene or troleum lamps:
The lamp should always be kept hermetically closed, for enever there is an opening that adnits a direct communifion between the oil-holding receptacle and the flame lamp ought not to be used, as an explosion may ensue. e receptacle may contain more petroleum than is sufficient one burning, and should be made of glass or other transent material, so that the quantity of liquid in it may be ily ascertained. The foot of the lamp ought to be broad if heavily weighted. 80 as to give it greater stability, and vent its being easily upset. Care should be taken, belighting the lamp, to see that there is a sufficiency of peleam in the receptacle, and should if, nevertheless, be ramed earlier than expected or required, the flame must first extinguished, a.d time allowed for the lamp to cool,
fure refilling and lighting it again.
Howd Pocier.-The Pacitic Company at Grass Valley, elack a pocket in their quartz lead of almost pure gold on ${ }^{1}$ day' A ugust 28 th, from which about $\$ 17,000$ were taken ij few hours. The gold was clean enough to take to town apnce, without going through the ordinary process.

I Regular Express has been started between Aurora ( $\mid$ y and Owen's River. It must prove of great convenience tharties at either end of the route.
[umboldt Salt. - The salt company's workmen have come u a a bed of salt, in the marsh, white as any table salt, and 3) particles, crushed in the fingers, crumbling out as fine. Il equires no grinding.

## THE BEAUTIFUL SKY.

It is strange how little people in general think or know The steamer Brother Jonathan which arrived from Victoabout the beautiful sky over their heads. It is the part of ria on Monday brought down a large amount of treasure and creation in which Nature has done more to please and bene-most encouraging reports with regard to the yield of the fit man than in all things else. In no other work do we see mines in Cariboo. The amount of gold duat by this amival the hand of a great and all-wise Creator so unmistakably is about $\$ 440,100,135,000$ of which was from Oregon. About displayed. The beautiful sky seems to be spread out like a $\$ 200,000$ of this amount belonged to three miners from Carigreat book in which man, in all conditions, whether civilized boo. These reen employed last year about 20 men in opeáor savage, may read, as in letters of fiee, "the hand that made ing theirl mine, and began to take out gold in January last, it is Divine." In no other work of God is the beautiful and taking out in a single day as high as 108 pounds, but averaguseful so intimately blended. The great essential purpose of ing per day 100 ounces. They deposited their treasure in the sky might have been accomplished by the sadden con-the Mint.
densation of a great black rain cloud, once a week or so, The reports from Cariboo are very interesting. Much exwhich might have been emptied of it\& wâters for irrigating citement had been caused by the discovery of rich auriferons purposes, and then a blank colorless waste have continued quartz veins. A correspondent of the British Colonist, says until the next fall of water was needed. But not so did the on this subject :
Almighty parpose when he made the firmament, and "divided Wihin the last few days some very promising veins of rich the waters which were under the firmament from the waters quartz have been discovered. All of these discoveries tho which were above the firmament." Instead of such dreary undoubtedly rich and extensive have been almost totally monotony there is not a moment of time in which the great eclipsed by a discovery made yesterday. Joseph Pearce, an book over our heads is not changing its face. Page after two days ago. While searching for them, he found a vein page passes before us, beauty alter beauty, picture after pic-- of white quartz, about two miles from Richfield. He worked ture sweeps across the sky in a never ending series of ex- at the vein fur two days, cleaning off the moss and vegetaquisite glory-the Creator talking to his creature, teaching ble mould, and the result of his labor was the discovery of him to look up from the groveling scepes of earth, and to The speeimens taken from the ledge are studded with gold read in the beautiful sky the lesson of immortality and life and silver, and the usual concomitant, inon pyrites.

## beyond the grave!

The reason why, in a clear atmosphere, the sky is blue, is thus pbilosophically acccounted for:
The white light of the sun falls upon the eartli without change; it is then reflected back by the earth, and as it passes through the atmosphere portions of it are returned, and this double reflection produces a polarized condition of light, Which imparts to the vision the sensation of a delicate blue. What is meant by polarized light is, that light which has been subjeet to a compound refraction, and which, after po-
larization, exhibits a new series of pheromena, differing materially from those that pertain to the primary conditions of light.

Amertcan Mrchanics in France.-One of the most ex tensive India Rubber Factories in France is located about three hours ride from Paris : was built by the father of Louis Philippe and employs from 600 to 700 hands. The establishment is now owned by a corporation. The most interesting (to Americans) circumstance connected with it is the fact that three American mechanics hold the chief places of superintendeney in this great French Institution. This is a fact which speaks eloquently in fayor of the superior mechanical skill of our countrymen:

Mars like tere Earte.-Recent examinations of the planet Mars, show it to be very similar to our globe. Snow is seen at both poles, the white circle increasing in winter and decreasing in summer. A greenish belt, with bay and inlets, is at the equator, supposed to be a sea and a redish island in that sea has been detected. The heat and light of the sun are only hall what they are on the globe ; but this may be compensated by a difference of atmopliere in their faThe gradnal appearance and disappearance of suow

As might well be expected, this discovery caused considerable excitement; and has led to quite a rage for quartz prospecting. Several other ledges, of supposed value have been taken up. This, like all such enormously rich discoveries, is probably notring more than a "pocket," which will soon be worked out, and leave the bolance of the vein, perhaps bolow paying value. Such extriordinary rich deposits of gold; are never very extensive. A discovery equally as rich, or more so, was made in Oregon some three or four years ago, which created a great furor at the time, but which was soon forgotten: I Cariboo correspondent of the Victoria Chronirle, after admitting the possible richness of this discovery, says :-
"If nothing further of importance is 'struck' in Cariboo in the next month or two than is now known, I think that the population of the country will be less than it is at present; the trade of the country will be less, and merchants generally will feel that times are dull and hard."

The" Lima."-The claims of the Lima company are situated two hundred feet in the rear of the Chollar works. The ledge is a good one, is sixty feet wide, and on the "Comstock range "-three very good points in this country. It was located two years ago, by Billy Chollar himself. The company are sinking a shaft on it, which has now reached a depth of 170 feet. The stock, which is nearly all owned in San Francisco, has never been thrown upon the mrrket. As the Lima is begining to excite some attention here, we shall probably hear of it oftener in future.

Tge Shera company, contemplates expending about $\$ 150$, 000 , in ascertaining more definately the contents of their mine and the shape in which it lies.

## THE REESE RIVER MINES

The Reese River Reville, in speaking of the Mines rhere says: "Just think of it-more than 100 ledges already known in this one district which will pay, and pay largely-from $\$ 150$ to $\$ 1,000$ per tor The stuff is universal-all around in tbe most uppromising ledges and out of the way places. This is the country for poor men; any sort of a clain from one inch to twenty feet iǵ widhh will furnîgh pay ore right from the surface-will pay its own expenses and those of all connected with it, if worked.? What more could be asked? Rich is no name for it ; the country is positively "seedy" with it, and all available. But it is not proper for us to brag; We only ask skeptics to call and see for themselves, like all sensible men are doing."
The same paper in speaking of what the mills are now doin that region, घays:
Brooks is now crushing; his mill appears to work to perfection. The Pioneer Mill and Mimily Company lave obfained a site for their extensive mill in the canion below town, and have a number of men engaged in grading and preparing the foundation. Their machinery, timbers, etc., will arrive here in a short time. The Union Mill Company, just above, have received all their machinery, and are putting the mill together at.ar rapid rate. They will be winder way in ten days. Hildreth \& Co. are making good headway,
considering the staunch manner in which they are doing considering the staunch manner in which they are doing
things. Buel. \& Co:'s' mill is busy pretty nearly all the time. The Oregon Mill Company have a large foundation up aud are rushing things along.

One and a half tons of ore from the Union No. 2 , worked at Buel \& Co's mill, yielded $\$ 450$, or $\$ 300$ per ton in siliver. The 'body of ore from which tbis lot was' taken is not less than six. feet wide, and increasiug rapidly in breadth.
San Miguel rock, worked at Buel \& Co.is mill, yielded $\$ 114$ from 480 pounds of quartz-silver, 981 fine, with gold $\$ 144$ per ounce. This would be about \$475 to the ton.
F. Davis's water power arastra mill at Cañon City has
been crushing the common rock taken from the Harding it been crushing :the common rock taken from the Harding it
Dickman ledge at Austin, which yielded 38 pounds of vullion to two tons of rock, or $\$ 392$ per ton. The next batch of rock to be worked will be from the Josephine, at Big Oreek, which has worked $\$ 518$ to the ton. Dwieri, MoConnebay \& Co. are talking of establishing a mill at Cañon City. A mill has been commenced below, at Lander City.
Ten pounds, less three ounces, of Yankee Blade rock, first location, crushed in an iron mortar in Gardiner \& 'Clough's office, yielded $91 / 2$ pounds of hard amalgam, which, retorted, gave $181 / 2$ ounces of silver, worth $\$ 125$ per ounce.
Oregon, Seymour, Blue, Washington, Magnolia and Florida, Manhattan, Ethan Allen, and a number of other claims above town, are taking out large quantities of rich pay ore. There seems to be no lack of quartz now ready to run almost any number of mills.
The success which has so generally attended the crushings thus far attempted seems to have inspired the miners everywhere throughout that region with renewed energy to apply thenselves vigorously in the development of their claims. We condense from the Revilie:
Work is progressing on a number of claims. Virginia tunnel will strike the ledge within 100 feet; Florence will run night and day very soon.
The developments in Unioa No. 2 are so important as to have a perceptible effect upon our whole mining district and the public abrond. On the surface it was not over a foot wide, but at a depth of 20 feet, where the shaft struck it, there is a solid vein of quartz 6 feet wide and an irregular formation of quartz for 6 feet more. The first 6 feet of quartz albounds in the purest oxide and chloride of silver, with other forms which make up the noted Mexican "Peacock ore," so very valuable.
One mille south of town, in the vicinity of the Union No. 2 , is the Congress, one of the older locations and on whieh considerable work has been done. The slaft is now down 30 feet, where it has passed through the quartz lode, developing a chioice quality of ore.
The Marshall cormpany have several tons of choice ore sacked ready for crushing. They bave the ledge opened in two places some distance apart, exposing a good sized lode of the utmost purity and value.
Springer and Ellis lose no time in the development of the San Domingo, in Springer Cañon. They bave a sllaft and incline down 30 feet, with a tunnel from near the bottom some 25 feet in. This mine, like all others southwest of town, contains the bromide ore in great purity and abundance. They have 10 or 12 tons out and ready for the mill.
Below this and toward the plain is the Mijuel, a Spanish
iscovery of undoubted importance An incline has been discovery of undoubted inportance, An incline has been
put down on it 30 feet and tie ledge taken out of this disput down on it 30 feet and tiie ledge taken out of this dis-
tance, It is the right kind of rock and is well defined and improving.
The Vernon Ledge, Smokey Valley, is now showing very
rich silver ore. An assay from the top gave 2 , 229 . rich silver ore. An assay from the top gave $\$ 2,329$. Workmen are tunneling in on the vein, and find the pay streak at least two feet wide-increasing.
least two feet wide-increasing.
Maggie Ledge, near Yankee Blade, is a new and valuable
discovery, the rock heing of a pure sulphide quality, and so rich at the surlace hat it has all been sacked up. Workmen are now down six feet with the shalt, but water has come in too strong to continue the effiort to sink it. Hence a tunnel
will be ran iminediately to top the lide will be ran iminedistely to tap the lode deep enough down to
drain it thoroughly. drain it thóroughly.
Die Vernon- 1 liis ledge, at a distance of not more than 12 feet deep, has been struck over eight feet thick, and this within gua-shat of the centre of Austin.
Gueen Brady is the name of a ledge north of the town, supposed to be the same as the Sonoma. It is undoubtly rich, as globules of silver appear all over the roasted or burnt rock.
The miners at Cortes District are busily engaged taking out very choice rock, quite similar to the rich ores of this vacinity. Androw Veatch is away beyond, north, exploring the country and risking his life as usual.

THE NEW STEAMSHIP " GOLDEN CITY."
The Pacific Mail Steamship Company is fast putting afloat a large and powerful fleet of first class steamers for this coast. The last of this fleet launched is the "Queen City," now on her way hither, The model of this vessel is much like that of the Constitution, but somewhat improved as to her sailing qualities. She is about the size of the Constitution, with engine driven by the same size of cylender- 105 incles diameter and 12 loot stroke. Her paddle wheels are 30 feet in diameter, capable of making $171 / 2$ revolutions per minute She is built with warter-tight bulkheads, fore and aft, dividing her into three compartments and is provided with 14 lifeboats; has 56 splendidly furnished double state rooms, and in every respect the vessel is superbly fitted up and admirably adapted to the Pacific coast.
Tre Sarail Francis Gold and Silver Mining Company has been reently incorporated for the purpose of mining and milling, and buying and selling mining claims.
They own and have title to two claims in Webster district, Alameda county, of 1600 feet each, besides 50 feet in the Avalanche, 40 feet in Saturn and Venus, 60 feet in the Champion lode, White Cloud Co., 5 feet in the Good Hope, 10 feet in the Pride of the West, 10 feet in the Henry Clay, 10 feet in Wood Choppert, 80 feet in the Glengary and 75 in the Gould and Hale, in all of which the work of tunneling is rogressing.
It would seem from the number of claims which they are aeveloping in the Webster, Alpine and Mogal districts, that they must certainly reet with suceoss, as they are not confined, in their operations, to the result of labor ou any one claim. One share of stock in the above named company represents a corresponding interest in all the interest of the company in the above mentioned claims.
Maing South:-A Los Angeles correspondent of the Sacramento Union, writing Angust 25 th, says that " 300 ounces of gold had just come in from the new placers, and that the excitement in that city still continued." Three hundred ounces, one would suppose to be a small amival to be considered worth reporting from a locality of such extraordinary reputed richness. All efforts to get up a large tide of emigration in that direction have thus far failed. It will be quite soon enough for such a movement when important arrivals of gold from that region are reported.
The same correspondent reports the arrival at Los Angeles of a large quautity of rock from the Slate Range district, from the Antrim and Comet lodes, which is enroute for San Francisco, and is said to be the richest. rock yet brought from that district, yielding in silver over ten thousand dollars to the ton.
Prof. Whitney, who has been spending a short time in this city, has again gone to the mountrina, in the prosecution of his geological labors. The rumor of his resigbation, as State Geologist, and acceptance of the Superintendency of the Latrobe Tunnel, at Virginia City, is withont foundation. It probably grew out of the fact that Professor Blake, formerly connected with the Geological Department of the Pacific Railroad Survey, has accepted that position.
The Latrobe Tunnel is one one of the heariest and most The Latrobe Tunnel is one one of the heariest and most important enterprises of that kind ever uudertaken in the State.
Winee, not Mines.-Our compositor, last week, made us give Mr. Hittell credit for a very valuable article on the Mrnes of California. Mr. H. has written many valuable ar= ticles on the great leading industry of our State, but the article to which we alluded, and which was published in the last Pacific Monthly, was upon the Wines, nat the Mines

## OWEN'S RIVER.

Considerable attention is being directed at the presen time to the Owen's River country, to the south of Carsn City. The Owen's River flows through one of the most de lightful valleys on the Eastern Slope of the Siema, Nevads The valley is about 140 milles long with an average width o about 10 miles. It is not considered mineral and has been brought under goverument survey and sectionalized. It i found to contain 592,040 acres, 200,000 of which is very su perior argicultural lasd. Owen's River takes its riselin Mo no County, about 40 miles south-west from Aurora. Th upper banks of this river contrin an immense amount of th finest timber in the world, which will soon hecome veiry val uable as a source of supply for the extensive agrienltural in terest which is soon to grow up in the valley, as well a for the mines which are lor ated along the base of the Iny mountains- throughiout its entire exstern border. At th southern extremity of the Valley is Owen's Lake, a beaut lul sheet of water into which thr river emptie: This lak is about 20 miles long by 18 brodd. The river, with sligh improvements, may be made navigable for a small class c
steamboats, at all stages of water, throughout the entin length of the Valley, and with the Lake affords a most act mirable chain of intercommanication from one extreme of th
Valley to the other. This Valley is from 4000 to 6000 fer below the summit of the Sierras, possesses a fine climat and is fast filling up with agriculturalists. The new comel express themselves as well pleased with the country, ari with the mining prospects around them, to which they 100 for a market for their produce. Vegetables of every kin can be raised in great abundance, as well as the cereals. N
further trouble is apprehenbed from the Indians, nearly all whom have been removed to the Tejon Reservation. Po tions of the Valley are covered, at the present time, wit most luxuriant crops of red-top clover, herds grass, etc., a the natural productions of the soil.
The most northern mining district, we believe, is the Iny is which about 1300 claims have already been recorded. Th Times, published at Anrora, in its issue of Sept. 5th, speaking of this district, says:-
"Capt. Peck of San Franciscois about to commence $t l$ erection of two furnaces; one for the Hooker compan and one for the Buruside company, which are desigued ; smelt the ores of these companies. [Argentiferoua lead or -Ed. Press.] Mr. Wingard has recently gone to San Fra cisco from Owen's River, and will forward forthwith, machi ery for a mill via. Aurora. The San Carlos company w soon have their mill under way. This mill is driven by w ter powex. Capt. Bosworth has arrived from San Francise and commenced crushing the Union company's rock. Th
company has out at least five hundred tons of rock. [A frier company has out at least five hundred tons of rock. [A frie
at our elbow says 1500 tons would be nearer the truth. Press.] Their ledge is from eight to twelve feet-wide, e taining large quantities of gold and silver, the former pi dominant.
The lda company are taking out fine rock; their ledge called the Nevada. De Bend City is the most central po tion and is improving very rapidly, The buildings are pris cipally made of adobes. The town has been recenty right angles. The blocks are 300 by 220 ; having an ally each of twenty feet. Many families from Sacramento, Vis. lia and southern counties are coming to the valley, and sen to be pleased with their new home. San Francisco is al sending her share of settlers."

The Visalia Delta of a late date, in referring to this gion, says :-
"A Steady stream of navigation is powring into the $O$ wel river valley. The abundance of water power, in close pir imity to the quartz leads, renders this the most desirable of tion we know of for miners. The farming land is being r idly taken up, and in less than a year we look to see an. dustrious population of thousands settled there."

San Bruno G; \& S. M. Co.-The claim of this compa is located near Silver City, and includes 1400 feet of gromi A shaft has been sunk to the depth of 80 feet and a led opened over sixty feet in width, of good pay rock. The co pany are about incorporating. The Devil's gate Disti will eventually be one of the best mining districts in the I

The Empirf Company, is located at Santa Cruz. 1 seen a letter from a reliable gentleman, formerly a broker this city, in which the mine of this company, is very far aaly spooken of. They have an inexhaustible amount of ro. easily attainable, which is estimated to be worth from '' to $\$ 40$ per ton.
A S S A Y S !
Promptness and Accuraoy Secured
By the Use of tur Nost Inphoved Methuds of
ANALYSIS:
Advantageous Terms for Prospector's Clubs and Mining Companies.

## J. B. CRURCHILL, M. A.,


RIEHN, HEMME \& 00 .,

## THE <br> BRYAN BATTERY.

The rast intercat in vilved tin the reduction of ores on



 Stamp Battery

## ALONE STANDING THE TEST.

ASSAYERS.
Offioe, Montgomery streat, cor. of Oalifornia

## Assays Made of ores, Minerals and Metals.

REFRRRKR WTII TERMISEIOY TO
 R. BSEAIN, EsA, IHJNHIME, RALSTON \& CO,

Ceas F. RIEIIN, late U. S, Branch Blat, givee Ienomas In


## BAUNCHEIDTISM,

## The Prifsebver and Producer of Life

THE PRFFCT OF BAUNCHFIITISM AS $\triangle$ METHOD OF





 of the year to lisenseg of the eye.
Dr. Burchera to the only doctor in California who has the Drighal serbe ne Brehers is alko io possenalon of nriginal leltars of tha inveltor of the me:hud by which be cia prove
that he la perfect master of the latter.
No DR. J. C. BORCHERS.



WILLTAM BRODIF \& CO. CALIFORNIA FOUNDRY,

## Light and Heavy Castings,

 nament.

## Giffards Injectors,

For siphive rourrs wirl fer water
 Send for a Circular.
$j 022$ Cor. Pine and Front Sts "San Erancisco.

## PATRONIZE home manufacturis!!!

James Longshore, Trunk and Valise Manufacturer,
 Valises, uud a fue assortmeat of LADIES' T1UUN,
Btimly on hand. Trunks covered aud repaired. sug x

## New style of Ladies' Buckle! <br> W, BOHM, <br> Inventor and Patenter.


 uinh the samo in cvery variety of styie. This buchte other in use.
The invent
The invention having baon carofully examined at the
Patent Ofnce, has been anjudged to be a useful improvement, and Letters Patent lave been granted for 17 years
excelis all other buekels in
Usefulness, Strength and Appearance. The Poblic is reapectfully invited to call a

BLAV VikMAN \& LEVY,
621 Washingtou Stret, SAn Francisco.
JOSEPH, BROTHERS,
607 Montgomory SLreeet, SAn Francisco.
FLOBERG \& CONRAD.
118 I Strect, Sacramento.
Every Buckle sold, stampert "W. Bohme", will
guaranteed as to its Sttength and Durability, $\underset{\substack{\text { guaranle } \\ 27}}{ }$

This, with the Improvements which Fxperfenen bas sugkested, is
ouly roliable

## MEIIOD OF CRUSHING ORE.

Thb Bryan Batrist, as now conatructed, ia belifwed In camblue all the fimporennegh which the experience
of the past has afforded. Thoy have been

## EXCLUSIVELY ADOPTED

by many of the moat prominent Mining Companios in tho
cnuntry, and have bonn, for tho thrato past grars, subchuilery, and have bonn, for tho threto phast grara, sub-
Jicted to the mont gevere of all tests-than of coustant uso-and in every case bave beon pronounced
Effective, Substantial and Reliable.
They are now oxtenalvely ured throughont the huve estrblished a cluilim to public connillenco, never yet equalled in any pione of mining machinery.
These silils are constroctod almoat ontirely of Iron,
andi, consenuauntly, aro not fifected by the intonase heai and dryucse of a mosthore, com non to all mioiog localled. They are udapted to
BOTH WET AND DRY CRUSHING,
and are warrantor to reduce, with the same weight of Stampa, 25 lier cent, more rock thun any othor mill in
use. Fach Battery is complete in itnelf, and forms a ase. Fach Rattery is complete in jtrelf, and formsa
porfect mill - whille any tumber of themin be added
ni a subsegent time- thus preserving the symetry and unformity of the Mill
As an cyidence of the Incronsing favor with which
thepe mills are regardod, we wrould mention that the thepe mills are regardor, we would mention that tho
Celebrated Ophir Company first introduced them foto Celebrated Ophir Company first introduced then Brtteries, each subsequent yoar, until
Nineteen, runding Seventy-six Stamps,

They are perfoctly fittel and ret up at our Works, be-
ore shipping, each piece being markod and numberod, gn that they can be put up anil set at work in tep hours after arriving on the ground. They are made of two si-
zes, four and five Stamps each. The Four Stamp
Roint zes,
Baitery wofghng complete abrut 6,000 noundp,
and the Five Stampabnut 7,000 . The Mortar Bed ueing cast in sectiona, when deajred, so that tho mills can be packed over uny mountalu road.
We annex the nimes of f few woll knom Companics Who have adopted them-running from frur t
ave stamps each-io whom referevce is made

Ophir Mining Co., Washoo Valley, San Mareial Co., Mexico, John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co., Virginia City, Tajo Mining Co. ${ }^{\text {C }}$ Mexico, Shebr Mining Co.. Humboltd. Latta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co.,, Owen's River, Union Quartz Co., Aurora, Triunfo Mining Co., Mexico Napa Quartz Co., Aurora,
Petaluma Quartz Co., Gold Hill, Petaluma Quartz Co., Gold Hill,
Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,




 Amagoza Mining Co., San Bernardino,
mancfactured only by
GODDARD \& CO., At the Pacific Iron Woriks. San francisco.
I. O. E. KLEPZIG \& CO., GUN MAKERS, DEALERS IN GUN MATERIALS, -33 Wanhington wircet, 能 Frunctaco

Repniring done in a workmanlike manner at the shor-


## WANTED,

 CUTTING JEWELRY,
by frontier A. Deviercy,
8u8t


Orogon strect botweca Washington and powis and Fron
and Juekson streats, Eas Frawcisco.

## $\mathrm{M}^{-}$

anatacurara or fire proor Door and
 place on the Pacifice coant, attended to will promptuass
aud dispatich. dispatch.

Mr. Sims Appreciates the Past liberal patronage of his friends, nad truats that he may
concinae to merit it in the future.

For the Informition of Strangers
he would say that ho fenls confidont that his experi-
enco in his partioular calling is surpasned by none on this const, which his Rufierior work, sunt to almost eve ry town in this state, Orogun, also Vietoria and the Sund-
wich Islands, ant to wich Islands, ant to be seen on some of the best build
iogs in San Franciaco, fully attesta. A Inrge assortment ings in San Francisco, fully attesta. A inrge a.ssortmen
of secoed hand shutters for sale at low rates. apis

## LEANDER RANSOM, Civil Engineer AND

## SURVETOR,

Having been connected with the public works of the state of Ohio for 20 years, and the public
surveys of the State of California for 7 years. ALSO

## STATE LOCATING AGENT.

600,000 ACRES OF STATE SCHOOL LANDS,


## D. NORCROSS,

masonte Temple, No. 6 , Post street.
Military Goods of all Descriptions, Navy Trimmings and Embroideries. Rug 17 RGGLIA FOR ALL ORDERS.
 Russia Iron Quartz Screens for Mills ;
Purtable Forges: Cauldron Ketles ; Pumps, both Frame rad Lift; Lead Pipe; Rubbur Hose; Wrought Irou Pipo;
Bibo Cocks ; Couplinge ; Play Pipes; Bibb Cocks; Couplings; Play Pipes;
Coking Stoves and Keaing Stoves;
Tin Plate : Sbept Iron ; Sheet Coppor;
Fruit Cons of Various Kinds : Tin Plate : Shept Iron ; Sheet Coppor
Fruit Cnos of Various Kinds;
Lard and Butter Cans of all Sizes Lard and Butter Cans of all Sizes i
Iron Wire; Brass Wire ; Copper Wire ;
Copper Rivets and Burrs; Iroa Rivets; Etc.

Wo are also manufacturers of the
UNEQUALLED
MONITOR COOKING STOVE
Or RANGE For Horras.

Brass Fousdry.-Among the many useful and impertance mechanical eatahlishments in this city, that of Messrs. W. T. \& J. Garratt, Hrass nud IBell Fonndess is desorving of special notice. Without dispuraging other firms, we would remark, that, so far as our ohservation has extended, these gentlemen are ut the head of their business in this city. They are prepared to execute every variety of orders in their line from a brnss knob up to a church bell. Their establishment is complete in all its branches, and wo would gladly recommend them to the consideration of our friends gencrally.
Mr. G. Moorr, of 612 Sacramento stroet, offers favoruble opporiunities to those wishing assays of ores, mineral waters and guanos. The references to his card, in our columns, speak for themselves. Mr. Moore stands high as a chemist, and his charges are reasonable.
Mons. F. A. Devierey.-We had the pleasare of inspecting the establishment of this accomplished artist last week, We can speak in the highest terms of his skill as a lupidary. We also saw some splendid specimens of his own manufactured jewelry. We beg to recommend him to our friends. His place of of business is at 437 Pine street.
Messrs Richn, Hrmuz \& Co.! These well known scientific gentlemen are now in business as assayers. They have a splendid lar boratory on Summer street. Mr. Riehn, from his official connextion with the United States Mint, is too well known in our community to need praise from ns. All business iutrusted to them will certainly be executed with efficid ency and dispatch. Their office is on Montgomery street, opposite Wells, Fargo \& $\mathrm{Co}^{\prime}$ 's

## G. E. MORE, <br> Assayer and Analytical Chemist, <br> No. 618 Smeramento Steet, <br> Having established a chemical laboratory, <br>  col work, is prepared to execute the Assay with accuracy of Ores, Mineral Waters, Guanos, uto., Wither and dispatich. <br> 

## PEOPLE'S

## OPPOSITION

## Steamship Line!

Conneoting California and Now Tork иa nicamagea.
griat redoction in ratesin

## 350 Miles Shos ter ihan Panama Routel

The Fast and Favorite Doublo Engino Steatuship,
MOSES TAYLOR,
J. H. Beethen. . . . . . . . . . . . . Oommandier Will be dispatcbed for
SAN JUAN DEL SUR,
From Mission street Wharf,
SATURDAY, - - OCTOBER 3,1863
Punctually at $90^{\circ} \mathrm{clock}, ~ A . ~ B I ., ~ o n ~$
Connecting at GREYTOWN with the Splendid Steamship
ILCINOIS
2500 Tons.
The Moses Taylor, slace her last trip has undergose the most extensive repairs. Her decks have beep ex
tended forward and aft ; cabing enlarged, refted and tended forward and aft ; cabing enlarged, refted and
repainted throughoul-making her accomodation equal
to any steamer on the ocean. Evory arrangement has been made by the Contral
American Transit Co for trabsyorting passengers across
Nicarnenz in a fow lionrs. Nicarnguz in a few Lonrs
For further iuformation or Passage, apply to
I. K. ROBERTS, Agevt, No. 407 Washington Strect, San Frabcisco, west of the
P. M. S. S. Co's. Unico, ulso T. Boyce.

## DOWN IN A COPPER MINE．

During our recent visit to Copperopolis we took occasion to look into the interior of the famous Keystone Mine．The Keystone is the first Northern extension of the Union Mine，the most productive and probably the most valuable copper mine in the world．It was uponground now belong－ ing to this Company where the first copper，upon the great Copperopolis lead was originally struck，and one of the main shafts of this mine has been named＂The Discovery Shaft，＂io commemoration of that fact．The Keystone is probably the most thoroughly developed copper mine in the State．It has been worked about two years，in which time over 1,000 tons of No． 1 ore have been shipped； 10,000 tons of No．2，raised to the surface and ready for concen－ tration，and from 12,000 to 15,000 tons of No 2 ，uncovered in the mine and all ready to be taken ou＇t with the expendi－ ture of a very small amount of labor．The present rate of shipment is not far from 200 tons of No． 1 ore per month．
The immense piles of ore and waste dirt heaped up about the main．shaft of this mine gives the visitor some idea of the vast cavernous openings marke below．Not satisfied， however，with this＂evidence of things not seen，＂on the invitation of the Superintendent，Capt．Richard Powning，or ＂Capt．Dick，＂as he is more familiarly known，we resolved on a visit to the interior of the mine．
We prepared for the descent by encasing ourselves in a complete mining rig，of overalls，blouse and slouched hat； then，with candle in hand，we followed the Captain down the ladder way，preferring that mode of descent to going down in the＂tub．＂The work upon the shaft which we de－ scended，having been conducted by different parties，who， from time to time，had been in charge of the mine，does not not exhibit the uniformity of design and engineering skill， which always should appear in a work of that character，and which，doubtless，would have been manifested，had Capt． Powning been in charge of the mine from the start．Much care and judgment should be employed both in the selection of the locality and in the manner of sinking and securing the main working shaft of every mine，and especially of a mine of such value and destined to be so extensively worked as the Keystone．The mistakes and imperfect engineering of the early management of this mine will yet have to be reme－ died at considurable cost．．Many thousands of dollars have been worse than thrown away on this work，in consequence of a lack of experience．The present Superintendent is making the best possible use of the work of his predeces－ sors．
The descent to this，like that to all other mines of any considerable depth，is by a succession of ladders reaching from one platform－to－another，at intervals of about twenty－ five feet，through which，in ascending or descending，the in－ dividual must pass by means of a small opening just large enough to admit of the passage of the body．From this shaft passiges upon the right and left，lead to the various galleries and dritts where the workmen are engaged in break－ out the ore from its place in the mine．In the present in stance，after descending abont 150 feet，the visitor begins to come within hearing of a confusion of sonnds，which come up from below－the noise of haminers striking upon drills， the stifled sound of the pick as the sturdy miner，deats heary blows at the crevices and yielding rock before him，the rat tling of the shovel as the hroken ore is raised from the drift and placed in the car or tub，preparatory to its journey to the surface or＂grass＂as it is technically termed，and human．voices，rendered strangely hollow by the echoes of those carernous depths，with now and then a dull beavy soind from a blist，fired in some adjacent gallery－serve to impress upon the mind of one，who for the first time fiuds himself in such a position，an indescribable feeling of wonder and astonishment at what he sees and hears around him． The glare of the feeble lights reflected against the black and dripping walls；the damp，cold，clammy and oppressive at－ mosphere of the mine；the pitchy blackness of the atmos－ phere and every thing else，a few feet from the candles，also serve to quicken one＇s perceptions as to the difficulties and dangers of mining ；while，notwithstanding the most deter－ mined effort to put on a careless exterior，a peculiarnervous－ ness will inevitably creep over the system－the infallible－off－ spring of an intruding doubt as to the safety of your posi－ tion．When you look around you，and observe the slender timbers，placed with so much care，as a support of the su－
perincumbent walls，the fear ineritably comes orer the un－ accustomed risitor，least those walls，of such immense weight
and extending，perhaps，hundreds of feet above you，should suddenly crush in their feeble supports，and bury you forev－ er from the light of day！You strive to smother the impres－ sions with an assumed feeling of awe and admiration at the spirit of enterprise and daring which leads the miner to brave such dangers for the accomplishment of the great pur－ pose of his calling－the extraction of the minerals，the sin－ ews of the earth，by which，wore than all other material things，uations are enabled to gain strength and importance among their neighbors，and accomplish migh！y results in the great march of buman progress！

While you are thus engaged in reverie，grand jet fearfu it is a source of the utmost relief that your guide，whose at－ tion has been engaged the while in some little matters 0 ， business connected with his care，suddenly calls your mind from its wandering and directs your attention to the busy scenes and interesting sights befure you．He takes you to the extreme end of a drift where the recent blows of the pick and hammer hare exposed the shining ore．The light from your candle，as you hold it near the walls，is reflected from a thousand sparkling＂pyrites，＂or reveals to your vision the masses of＂sulphurets，＂as they still remain，undisturbed，in the place where they were formed in the great laboratory of Nature．There they are，just as you have seen them in your little cabinet at home－the pyrites，the sujphurets，the hard grey ore，with here and there a small quantity of red or black oxides filling ap some little crevice，where they have been deposited by some of the chemical reagents which are in constant yet slow action all aronnd you．The carbonates hare all disappeared．They are always found near the sur－ face，and have long since been taken away．
You have now passed some distance from the main sbaft． Your guide takes you into a little side drift and directs your attention upwards；you hold your candle aloft and look up－ op into an impenetrable darkness！Your candle burus with renewed vigor，and flashes wildly；you feel a refeshing and invigorating draft，contrasting strangely with the damp at－ mosphere of the gallery which you have just left．You have ap－ proached an air shaft，which has been opened for ventilation． In ull extensive mines，properly opened，you will find various airshafts，and longitudiual air passages，by which a constant natural circulation is kept up，without the expensive and in－ coavenient arrangements of＂blowers，＂which always have to be put up in mines which are not opened with special re－ ference to this important particular．You will find such an arrangument－two or three of them－on the Union mine adjoining the Keystone．They make a great deal of noise， require a large amonnt of power，and after all perform their office of ventilating the mine very imperfectly．，A little of the right kind of knowledge，where two or more slufts are connected，will enable the superintendent to ventilate his mine without any such artificial means as＂blowers．＂The Keystone，we believe，is nearly one hundred feet deeper then the Union，yet the former is thoroughly ventilated by the sim－ ple control of a natural draft of air．Of course，under all cir－ cumstances，the air of a mine must be quite impure at best． But we have been standing quite long enough near this＂air－ hatt＂to become thoroughly ventilated．
Let us fullow our guide．Here we are again at the bottom of the ladoers，and our attention is directed to a windlass and bucket，just as we sometimes see them on the surface．On looking down we perceive that workmen are engaged in going down still deeper with the main shaft．The earth is hoisted from this extension shaft up to the＂dump hule，＂hy the windlass we have just noticed．To this＂dump hole＂is also brought the ore and water from the galleries and difts apon each side of the main shaft，and from this point taken to the surface．If we wish to go down into this，the lowest part of the mine，we shall find no ladders，but the visitor places one foot in the＂bite＂of a rope properly secured，and standing perpendicularly，holds tight to another portion of the rope over his head，and thus swings himself off the platform over the abyss below．The windlass man，then lets him down，in the same manner as he does the＂tub．＂Here we are，about 280 feet from the surface，in the lowest portion of the mine yet opened．From the bottom of this shaft gal－ leries will soon be run in both directions．The vein between this and the level ahore will be＂stoped＂out，the＂ladders＂ extended down，another＂platforia＂built，and the windlass men again go un sinking；and so on down，down，deepe $\mathrm{r}_{\mathrm{r}}$

## nd deeper，ns long as the mine will pay in depth．

But our adreuturers as well as oar readers are getting quite exhausted；so witlout seeing half the sights in to e mine，or exploring half its galleries and drifts，ie will make the shortest possible way to the surface by an immaginary ride to day－light in the＂tub，＂which in this case，harpens to be worked by a horse－whim，and of course hauls us up more slowly then a steam engine would．Perhaps befure we go down again，Capt．Powsin will have bis engine in operation， which，as we energe to the duy light，we see a lew feet in front of the shaft almost ready to＂fire ap．＂

## THE MINING SHARE MAREET．

The depression in the Mining Share Market，heretofore， of late noticed，still continues．So great，indeed，has it be－ come，that it has already resulted in an evident disposition on the part of capitalists to call in their Yoans and reduce their risks on this class of stocks．The causes uf，this de－ pression are not attributable so much to ayy lack of confi－ dence in the ultinate success of the leading mines as the prospect of an endless litigation which seems to hang over them．

There appears to be a fatality，in this respect，which has ever cast－a threatening shadow over the prosperity of Cali－ fornia in every thing which pertains to a question of title． This great incubus seems to have followed our citizens in their transmontane migration，with even a more threaten－ ing aspect than it ever presented on the Western Slope．It has nuw become the especial carse of our land，retarding out prosperity in its most essential point－the development of mines－thereby turning from this coast the flow of capital which would otherwise set thitherward with a volume and uniformity without parallel in the history of past commer－ cial transactions．It is difficult to determine to what point we are to look for even a ray of hope for escape from thia terrible infliction．There is evidently a radical defect some－ where－perhaps everywhere－in our Judiciary，in our jury system，aud amung the people at large．
Ophir has still further declined．The sales of the week have been rather Iarger than usual，but altogether on time． Contrary to expectations there was no increase in the divid－ end，which wus declared on Monday last．\＄48 per foot is still the figure．

## Gould \＆Curry is dull at $\$ 4,400$ on time．

The Oalifornia is still inactive，awaiting the results of the Latrobe Tunnel，which is progressing slowly，in consequence of the grecaution necessary to be observed to avoid damage from water，by striking the vein too suddenly．They are now very near the lead，and important developments may soon be expected．
The Central is about putting in a second pump，in connec－ tion with the California and Uphir．
The Chollar atill remains comparatively quiet ；few trans－ actions noted．The prospects of this Company are most encouraging in everything，save its lawsaits．Their works now going up are very superior and the mine rever looked better．
Putosi is still growing in favor，having met with a mate－ rial advance．This mise is an exception to the geseral de－ cline，and is now very firmly held at $\$ 1,500$ ．The probable postponement of the suits pending against this Company， coupled with the large yield of the mine for the part two months，is said to influence their stock very favorably．

Savage is not in much demand，notwithstanding the con－ tinued improvement of the mine Report says that the quality of the ore improves as the works increase in depth． The Company will not put up a mill at present，preferring to wait further developments in working silver ores which they anticipate will be available by next spring．The mine of this company has been proved rich throughout its entire extent， and is probably as safe for investment as any mine in Vir－ ginia City：The＂pay streak＂of this mine is represented as fifty feet wide，and as soon as they can make arrangements to have the ore worked to their satisfaction，they will take out 150 tons per day．

The Dick Sides met with quite a heavy loss in the burn－ ing of their engine honse，at the late fire，and some three or four weeks must still elapse before they will be able to re－ sume work．
The Best \＆Belcher，on the contrary mere gainers from the fire iwasmuch as it cleared their ground o certsin squatters， who had become quite annoying，giving them possession of
ground of which they will not agaiu be qquictly disposssessed. Wide Weat has fluctuated frum $8 i 5$ to $\$ 115$.

Heal lel Munte is in favor at $\$ 300$, byyer 30 days.
The C'unsulidation Antrim Company (Slate Range) is fa. rorubly mentioned. Sume fine epecinents of ore from this mine ure on exbibiton in this city. It is said that ore is now Leing taken from Antrim No. 2 which will yield $\$ 2000$ (perton. Rich aksays have heen obtained from ores found
in the Shate lango listriet, and it is attracting a good ceal of attention.
Aiorth American shares continue in favor, and have beet lurgely sold ; opened at $\$ 74$, advanced to $\$ 90$, and closed 3 3.4.

## Waltimore American, dull at $\$ 45$; Echo, at $\$ 50$.

## We subjoin the sales of the week.

Phir. .......... 360 Shares $\$ 2100$ (a) $\$ 2250$ b 30 per foot.
(a) $51 / 2$ ith of ciyde. . . is "1 auld of Clyde...... is
ireat Weatern Tun. 50 usephiue
wou. . . . . . . . avace.
hol
lale
ne
nelue



## fiver Ilill

 budie Bluff

## COPPER.

Copper still continues a matter of important enquiry "on ange" and everywhere else in mining or general basiness eles. The stocks of productive mines are constantly adncing with holders firm. The time required in opening out bopper mine, for sinking shafts and running levels, is as
portant to the value of the mine as a paying lode, and pes held to-day at $\$ 40$ to $\$ 60$ per foot, if well wrought, may rance within a year to much larger figures.
The Keystone has levied an assessment of $\$ 5$ to complete
thir machinery. The work of developnent is beiug pushed
iead at the expense of present shipments-the labor being lroted to that end.
The Nepoleon still continues its usual shipments. Sales "ore to the amount of $\$ 10,000$ have recently beeu made il the net monthly earnings of the mine now reach a handsue sum.

The shipments of the C nion now areruge abut 800 tuns per munth.
The Copper Hill Company are shipping about 100 tons per month. The Company is suid to be in a fluarishing cundition -hu stock in the Mu.ket.
The Table Mountain Company is still energeticatly at work developing their lude. Sales of this company's stock are repurted at sto.
In Sonsma county about fifty independent ledges have been struck, upon which it is estimated fully 1000 claims have twen located. The Woodland Company have struck promising ore within fifteen feet of tho surface. Twentr-tive feet in this company's claim recontly sold fur $\$ 30$ per fuot. One sale in the C'nion, an extension of the Woodluad, is roported at $\$ 400$ to the share, ( 200 feet.)
In El Horado county some rich strikes are reported, and the Home Coppor Company is said to have found good ure ut
a depth of $\overline{5}$ leet.
In Ilacer county the different companies are vigorously at work, and a considerable amount of capital is being expended.
In Nevada and Yuba Counties the interest in copper is continous, "without any appurent abatement. In some of the companies shares have risen to $\$ 100$ per foot. "Three or four companies have an abundance of ore averaging 40 per cent. of copper. The Prettiman, or Well claim, Eureka, Last Chance, and Stillhou e claims are the most valuable.
The copper mania is still. working its way northward Copper croppings can be distincfly traced from Del Norte and Siskigou counties from 60 to 70 miles into Oregon. The Dalles Jourant publishes correspondence from Masco county to the effect that the Martillut lead yields copper assaying as high as 60 per cent.; the Star lead is fully as rich. (Probably specimens.) The Stonewall lead assays $\$ 13$ in silver in addition to its copper yield ; the copperhead lead contains copper, silver and gold; the New Helvetie, containing silver and gold is as rich in copper as the Martillot. 'There are a large number of other leads, in the same neighborhood. The regular silver leads have also been discovered in this locality, which are elsembere more fully worked.
The Press of Victoria is also calling attention to the copper discoveries in that section. They warn their readers that gold deposits must soon cease to be renumerative, and that more reliable minerals must be sought.

The Colorado mines are also attracting an incresing degree of attention. The great importance of that region as a mining district claims special regard, being within our own territory, and possessing a traditional reputation. Reports of rich discoveries are of frequent occurence, both in placer and vein. The Apache Chief Company, it is -tated, have struck a valuable lead of copper, assaying some 60 to 70 per cent, and about thirty miles cast of La Paz.
All the ores from that quarter which have arrived in this city reach a very rich assay. If the mines of that region continue to any great depth they must soon become of great value There are rome reasons for believing that they will result much like the Similor ores which, for some years, have been found in such great abundance in Chile, but which, of late, have been giving unmistakeable evidences of an early exhaustion. It is to be hoped, however, that such nay not be the result with the mines of Colorado.
In Sunora, also, so far from abating, the rage for mines, both in copper and silver, is strongly on the increase. A recent correspondent of one of our daily contemporaries, writes from that region as follows :-

One operator, who had bagged only nine mines in a fortnight's run, was greatly chagrined to find that his friend and adviser had beaten the best ground and secured fifteen. He will probably be up on this steamer, disgusted with his ill lack. Let me here advise every one to be caitious of investments in cupper mines in the low lands or coast strips of So-nora-all experience, with scarcely an exception, having proved these veins superficial and comparatively worthless. 1 stepped into the Prefectura half an hour ago and recognized rich," which I examined by request of ex-(tiov. Cubilias five years ago, and which were then rejected as worthless."

## ESMERALDA STOCK LIST




REPORT OF BTDS
At the San Francisco Mining Stock Board, For the week ending sey. 12, 1803.
Names of
Companites.
wh
phlirir \& Cury
Soulu \& Curry
Suvage
Suvage
Clinlur
Putuai
Hade \& Naro
Siorra Neva
Nen
b.

Burning Mosoow
Nurth Potogi
Nirth Poto
Merediut
Cbarles Caney
sucramento
lowa -
By lonado
Buruside
Adrintic
Brenous
Pride of the West Imperial Cedir Hill Tunue
Mount Davidson Central
Californ Califoruia
Rogers, F Rogers, lauly Brya
La CrasBe La Cro
Moss
Porter
Crown Polat Grown Po
Minn
Hindtala lnty Eilen Schilhtr
Seuecia
SR Seuec:
Vextivins RGabralpa
Wide West Antelape
Enmerald Enmenilda Utah Miver Nevarla
Federal Hop South Utalh
Jenuy Lind denky Lind Suubeam,

Bamboro Barmber West' Tun. | Burlingto |
| :--- |
| E. I'asa |

```
k! l'asu
```

```
NE!na
```

cosin grocks
Jostphine
Wosephine
Willow Spr
Empire - Empi
Coso
yhxrican mines.
Minn Pricta Minn Pricta
Diva Paure Diva Paure
ooprer stoce Natpoleon Notpoleon CawforniA stocrs Lharel Hill Rbodes
Eureka
Fellowe Lureka
Fellowea
Roek Rive
Utien Humbol
ner Sotn

102



- Appsan

Sprapasi



Mr. Edrror: Tour correspondent "P" now promises that he "will not mislead your readers-' The question was, did he not do so in his letter of the 3d ult.; he still intimates not, and refers me to a work of Dr. Hoffmana's. I may say, en passont, that though I have cause to remember, with gratitude, the instructions I received from that eminent Professor, I should not have selected him as an authority on metallurgy, as I believe from the days of his studentship, his attention hàs been almost exclusively devoted to organic chemistry. But even Dr. Hoffmann is against "P." In Fowne's chemistry, the 7 th edition of which was "revised throughout " by Dr. Hoffmann, I find, after simple instructions for testing for silver with nitric acid and soluble chloride, with expostre to light, "Lead is the only metal which can be confounded with it." So mach from Dr . Hoffmann as to the practical question whether " $P$ ". is misleading miners when he suggests instead of the above, a delicata operation which, in the end, he says may be complica-: ted with antimony and bismuth. On the purely chemical part of the question, it is water and not bydrochloric acid which produces the subsalt of bismuth, which "P.". means and if too much water were added the free nitric acid would at once redissolve it-its formation is however obviated by the ase of enough acid: P. talks of "falling on me again." Your Cornish readers will understand me when I claim "the first fall" for
A. Poor Chemist.

San Francisco, Sept. 7th, 1863.
Bucheye Company.-This company, says the Territorial Enterprise, whose claim is located near Silver City, are now working their mine in a very energetic manner. Within the past four months they have opened their ledge in three places. In their north incline, which is down a depth of 170 feet, they have found good silver bearing quartz, but water came in so fist they were compelled to suspeud operations at this point. The President and Directors arriving here about this time, at once contracted for a 30 horse pewer engine to keep the mine free from water. When this is in working the compony expect to take out a large quantity of rich ore from this incline. The Superintenrich ore from this incline. The superinten-
dent a few days since discovered an old tunnel ranning in a distance of 90 feet, in which the ledge is found to be from 8 to 12 feet in width, the quartz bearing a resemblance to that found in Gold Hill. In twenty four hours' time 40 tons of this rock was taken hours time 40 tons of this rock was taken
out. The compary are confident that they cän, after a short time, raise from 500 to 1.000 tons of ore each month. They have all the conveniences necessary at the mine; krildings for workmen, powder-honse, office for Superintendent; etc. Roads are built of width and grade suitable for the heavest loads, asd nothing seems to be wanting to make this one of the best mines in the Devil's Gate District.

The steamer Constitution, for Panama took away 105 bags of Silver Ore, in addition to her large shipment of $\$ 1,454,207$ in treasure.

Telegraphic.-Ten thousand dollars have been subscribed in Humboldt and along the line, for the bnilding of a-telegraph to California. The line will be in operation in about three months.

Age of the Big Trees.-Professor Whit ney, State Geologist of California fixes the age of the mammoth trees forming the big grove of Trolumne at one thousand two han dred and fifty years.

GENERAL NOTICES

## DR, H. AUSTM, <br> DENTIST,

No. 634 Washington street,
Between Montgomery and Kenroy,
Baths.)
I bave recently received from London a New and Beautirnal Vulc.uite (India Rubuer) for Artiacial Treel
which is far superior to any other ever nsed, It is light cleanly add durabie, and of a natural color. The cheap est and best material for temporary (and in mazy casea) permanent sels. All operations thoroughly performe
je-29

## DESKS

Office ${ }^{\text {And }}$ urniture,
OF ALL KINDS...... FOR SALE By

## JOHN WIGMORE,

No. 423 California St., San Francisco
OFFICE JOBBLING, of all Kiads, attended to.
SQUARZA'S PUNCH.
FIRST PREMIUM
at the sacramento agricultural state fair
ALSO; FMRST PREMUUM San Francisco Bay District Agricultural Fair, 1862

Manepactory, wholssale amolreyali,
No. 44 Leidsdorit street, Opposite the What Cheer House, San Francisco.

## charles geddes,

 ARCHITECT,Cor. Montgomery and Bush Streets,

> Over the Marcadtile Library Rooms,
j5 20
San Franciaco

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL DRAUGHTSMAN; No. 422 California street, corner of Leidsdorif Drawings of MoDEEs made forinarties applying for nat
ents at Washington or Lomdou.

New Patent Agency. We riave connected wirth then The Patent Agency Business,
And would invite Inv entors and liseoverers on the Pa-
cifice coist, who wish Dispatel as well as kiconmy to call
 ron, which, tngether with our own experience of bevera
yenrs, renders the cars, renders and scientific Press Agency The most derirable place tn make application for Letter
Patent on the Pacifl coast a Patent on the Pacilit coast. Apply at
Office of the "Mining and Scientific Press," Room No. 57, Government House, corver of Washington nud
Saunome strects, San Fraucisco. EWER \& SMMM.
FOREIGN PATENTS OBI'ATNED By application at this ofllee, Ronm 27 Government Hous
EWER \& SMITH, jolicitors.

NOTICE TO INVENTORS. Invontors wisbing to file Caveats should apply at this
Offce, Room No. 57 , Goverament House. Terms moderOffice, Rooke No. 57, Goverament House. Terms mod
EWER \& EMITE .

## PATENT RIGHTS.

Patent Rights Bought and Sold, the office of the "Mining and Scientific Press"" Agency
EWER © SNITH.

## IMPORTANT TO INVENTORS.

Inventors who obtaiu their Patents through this Offce can bave their Inventions illustrated and described it the collumgs of this paper Frise of chargo, tiey merely
furaisling the engravides. We are also peepared to furfurcishing the engravings. We are also prepared to fur-
nish engravings al reasonable rates. Thnse whin not
care to gn to the expense of haviag engravings prepared care to go to the expense of haviug engravings prepared
can have their inventions fully noticed and described can have their inventions fully noticed abd described it
our columas, free nf charge. The frce use of our col umus to aid them in introducing their inventions to the
public will be found a most important adynntage in in public wil
ventors.

EWER \& SMTH.

## Offices To Let,

 In the Governmont. House, Covner of Washington and Smasom Strrects. TWo large quitsOnices, the most commodious and accessible in the city.

## GENERAL NOTICES

## HAYNES \& LAWTON,


CROCKERY,
GLASS WARE,
FRENOH CHINA,
Coal Oil Lamps, Table Cutlery CLOCKS, Silver Plated and Britania Ware, ETC., ETC., ETC.
NO. 516 SANSOME STREET
[CORNER OF MERCHANT,] San Francisco.

## WHEELER'S Amalgamating and Separating Pans. <br> It is acknowledged hy all who bave examined the principlos and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use. <br> The minst important principle connected with the operation of these Pavs is the separation of the trituratiug process from th: $t$ of exicacting the amalgan from the sand. The ebjef cause of loss of the precions metals ari sand. The cbbef cause of loss of the preciolis metals ari- ses from the passing off of the same in combiuation with the quicksilver, during the proces of trituration, and in the quicksilver, duriog the proces of trituration, and in cooaning up By the introduction of tue Separating Pan $\left\{\begin{array}{l}\text { cocaning up By the introduction of tue Separating } P \\ \text { to } f \text { Ilow the trituration this loss if eutirely avonided. } \\ \text { working these machines thero is po appreciable lo }\end{array}\right.$ working those machines thero is do appreciable loks zuicksilver, and lience none of the precious metais.

Where these Pans have been introfuced and operated by the sille of ulbers no sands frove the same vat, the
Wheeler l'aus have uniformly gained a large percentage Wheeler l'aus have uniformly gained a large percentage
of metals over its competiturs, as well as a still larger of metals over its compeliturs, as well as a
parceutage in the amount of work performed.
*** These Pans man buscen in daily operation, at the Hiner's Foundry, on First street in this cty, where al gol6-tf ZENAS WHEELER.

## Wm. P. TAAFPEE,

importer and jobber of
Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and sacramento streets,
San Francisco.

## REMOVAL.

OFFICE OF THEE PACIFIC METAL Having enlarged our Works at North Beach, wo ure
now enabled in reduce from 10 to 15 tons of Silver or Gold rock per day
Gold and siver ore, and Snlphuret Assayers', or Sil Fersmin has' sweepings reduced or purchased
COPPER UBE
COPPER UBE"-Highest market rates advaneed
cash, for shipments.
S. C. BRIDSHAW
ipments. S. C. BRADSHAW, Agect,
509 Sacramento strent, near Sansome.

## NATHANELL GRAY, General Furnishing Undertaker, 641 sacrapmento st., Cor. of Webb, <br> geo. A. hetcalp.

D. S. \#umcrumson.

METCATF \& HUTOHTNSON'S

## PHOTOGRAPHIC GALLERY,

650 Washington st. Three doors below Kearny.
Having refitted the above rooms the Firm are now preparca
Picture, at a lower price $u h a n ~ e v e r ~ b e f o r e ~ o f l e r e d ~ i n, ~ t h e ~$
ity

## CARD PICTURES.

As we have every facility for producing these beautl-
rul pictures, in all their diferent varieties, wo have rerul pictures, in all
dinced tue price to
\$ 3. Per Dozen!
Large sized Photographs $\$ 3$ - Extra copies 81 each.
AJJBROTYPES in all Styles and prices.
OID PICTURES copied with care aud accuracy, in any atyle de
CClid
licen

## HOTELS

## International Hotel,

Jackson Street, .......-San Fhancisoo
FIRE-PROUF BRICK BUILDING. Most convenient to the Steamer's Landing, Business sta, \& Placos of Amusoment OPEN ALL NIGHT.
Nos City Railroad Cars Pass the Door. REDUCTION IN PRICES.
Fine Bathing Rooms atrached to the Barber Shop
Warm and Cold shower Butlis Free to Gaeats.
$T$ HOROUGHLY RENOTATED AND NEWLY FUR. Dished this spring. Every Room opens to the Lught
Air. Each room is
furnibhed with a first ounglity Patent gyring Bed and Hair matresses. The Iuternation Patent gyring bed and Har mat tresses. The
aIfers to guests the greatest number and

Best Fumitished Family Rooms and sers as gond table as any House in the city I am determined that the Imteravitional shall be the perior to any like establishliment in the atate, and shall
 eoloyed her
Priociples,
F. E. WEYGAN', Proprietor.

## Tremont House, <br> 14 and 420 … Juekson stree

THIS FINE, FIRE PROOF BULLDING OFFERS MANY
1 advantazes in the traveler for conventence. It only half a block from the Yoht Omeo nad Custom Hous
and ubout the samo distance from the priucijal placus and ubout the same distance from the prineljal places

The City Railroad Cars pass the Door.
The Honse is conducted on Temperance Principies,
Which aecures to our guests quikt.
The prices for board and fooms are very monerate-
by the day, meal or week. Fizs souncrs a Call prom azl F. E. WEYGANT, Proprietor.
 cary on the two houser in connection, so that Travelen wishing to put up at cither house, may take the Tremon with their buggage, Free.
F. F. WETGGANT。

## THE RAILROAD H O U s E. <br> Nos. 46 and 48 Commercial and Clay Sts., SAN FRANCISCO. <br> н. т. felton - - - फ. c. minoz

 PROPRIETORS.The above House is a Birc-proof building, with Granit Frout, and kept on the Europican Plan, with board abi
lolging by Day or Week to suat the convenience of ou Patrons.
The Reoms are handsomely furnished upplicd with Patent Spiring Beds, and Hair Matranses afording very snperior acommodutions for tamities o single persons.
The Table is supplied with the best the market afford at prices to suit toe times.
The Rail Road House Coach is always in attendance a the Steamers to convey, passengers and their baggage $l$ the House Eree of Charge.
the House is open all nigbt.

## P. M. S. C 0 .

PACIFIC MALL STEAMSHIP COMPANY Roal with the steamers of the Alantic and yaofii road with the steamers of the A
Steamship Company at Aspinwall.

FOR PANAMA.
The following Steamships will be dispatched in th month of September, 1863.
Sept. 13th, - - - Steamer Orizabe Sept., 23d, - - Stermer Golden Ag

Will leave Folsom Streat Wharf, with Passengers as Treasure, for Panama

AT 9 O'CLOCK, A. M., PUNCTUALLY, $^{\text {a }}$
And connect, via Panama Railroad, at Aspiawall, w andashisis for Nesp York.

## For Freight or phssage, apply to

FUUNURIES \& MAUHNE SHUPS.


## Steen's Improved Governor



## Clark'sSteam and Fire Regulator,



## Ingersoll's Patent Drill Press,

 Felt for Steam Boilers, Pipes, Etc.. Steam Engines, Boilers, Pipes,





No. 33 Fremont strect, Say Fraucinco.
MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths $y_{1}$
Mission, between Beal \& Fremont Sts, Sant Frauciseo.
N. B All kiods of Boiter and Sheet Iron Work exc


## PUMPS!

HARRISON'S
California Lift and Force Pump,
without vaives or packing,
Sultable For Mineen, Fire Eagioes, Wrcecking or Irrigat-
ig. This th the Clicaspest, Liglitest and most Duraible, log . This la the chanpest, Liglatess and most Durable,
and least ltable to get out of order, of aoy Pump yet invonted.

## AJI. SIZES;

Canable of throwing frum ONE HUNDRED To FIVE
THUUSAND Gallung per Munulu-Fur sile by

## C. H. Harrison, Phœevix Orl Wores,

> 617 Frout Strèt, Sun Frauciaco,

50 lbs. MARINE and
Hire-Proof Paint,
M Works iu this city, tor Hulls and Deeks of Yessete Works iu this eity, tor Hulls and leeck of Vessela tharge tuil six other 3linerals wheu tised, Chiter, Deeks quite equal to Copper, no worms will ever eflect $i t$, and pheaper than any other paint.

## DIRECTIONS :

For Deeks of Shppa, use two parts Miaeral Paint, one
part White Lead mixwihh Linnoer Oil. part White Lead, mixwith Linsocer Oill.
For Buttoms of Vegsels,
For Buttoms of Vessels, une one part ground sulphur
Fror
of 00 fts. each, or by the Pacific Metallurgical Works.

## 25 POUNDS FIRE-PROOF PAINT.

When uned on Ronfa, Buildings, or Fencer, it is equa
ocovering them with a coat of Stone, beiDg perfectly Fire Proof, and costing less than any paint. DIRECTIONS:
House :-Mils three parts Mineral Paint with one par Wranted, , mix livas paint, mored lead
Rour :-Five punte of Mineral Paint, one part white
 as one coaz when properly applied will last three y years.
WORES, North Beach; Office, 509 Sac. ramento at., San Francisco.

FOUNDLIES \& MACHINE SHOPS.
PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 10, Firat street, san Francleco,
Furnish Custings and Machinery of all kinds

Genutir Wiitr Iron Sifoes and Dies. patamir, hanscoses a co.
To Quartz Miners.

## Knox's Improved <br> AMALGAMATING PAN, WITH

## PALMER'S PATEN' STEAM CHEST.

The above combinatyun securas the nost




$$
\text { Nom. } 19 \text { \& \&1 First Streot, San Frauciseo }
$$

Thé pulific are informed that Letters Piatent have bee



Jonx P. Gallakher,

GALLAGHER \& WEED,
BRASS \& BELL FOUNDERY
AND
LOCK FACTORY.

## No. 125 Ijrst Street, opmosite Minar, gext door to Paclic

Brass and Compositnon Castings and
Finishing, done with neatness and dispatch.
 in the best manner. Eagincors Gomgs Mande and hung Valt, Store and Prison
Locks, also brasn Pudneks and Shop Loeks of various patterus, on band and made to order.
pen Particular attention given to
nen. Pirticular attention given to casting Rudder Bra-
ecs and Ship Work in getheral.
All Jobs promptly attended to.-Prices moderate.

## Miners' Foundry

MACHINE WORKS
Firat Sto, between Howard \& Folsom, san francisco.
$\mathrm{E}^{\mathrm{VERY}}$ nescripfion OF iron and brass mactit-
 Stenu Eugicer and Boilers, Flour, Suw and Quartz mill muchinury, Mining Yutps, Amalgamators, Retorts,
Etc.,
Eic. Particular atteution will be given to the manufacture of Machinery in Sections, desigued for places of difteult
anceus.
Varioun nudels of Quartz Cuslers, Amatigamafrs and Water Wheele-some in operation aud on exbi*** Parties desiring in test their ores practically,
small quantitios will be aforded arople frcilities, free coast.
All partices desiryng accurate and bighly finished draw age and Superior Mhchivery, at mosi rensinnable rates
are cordisly iaviled to call bofore contracting elsewhere Howland, ANGEL \& KING
San Franciaco, Fcbruary 23, 1863.

## San Francisco Machine

## IRON WORKS!

Northeast connor Fremont and Mision Streets.


 Stean Emgines exchanged and for falle ty


FOR SALE.
One Upright Post Drill, Putaam's manufacturo,
so one thrity inch serew Chucks. Sen Franciseo, July, 1853.

FOUNDHES \& MACHLNE SHOPS

## VULCAN IRON WORES COIIP ANY

P. Torquet, Manager,

STEAM ENGLNE BUULDERS

BOILER MAKERS,

## Iron Founders and General Engineors,

No 137 \& 130 Etrat street, San Francieco.
Pumplng, Iluintlag, Miang and Quartz-crualing Machthery.
Shows und Dlea of the bardvet frou,
Russia Iron Punched Scroens.
Stemmbort Machinery : Suw, Flour and Sugur Milla High und Law l'reure Builers of all Styles.
Juxival mad other Turbiue Water
Juxival mad other Turbiue Water Whucls with laveat

## W. T. \& J. GARRATT,

 City Brass and Bell FoundersCoro Fryst \& Market sto, San Francheo


 rau's P'stent himproved Jourual Metal.

## D. MORRIS, MACHINE SHOP.

227 Market, corner of Beale Street.
Manufucturer of
WARRANTED FIRE-PROOE SAFES
Mill Work, if all kimde made to order. All kinds of
jels
Repairing done at moterate prlcea.

## LEWIS COFFEY AND RISDON,

 STEAM BUILER AND SHEET IRONThe only exclusively Boiler Making Establishment on the Pacific Cosat Owned and condacted by Practiral Boiler Mukers. All orders ior New Work, the repairing
of Old Work, executed as orderod, and warranted es to quality.
Old Stand, corner Bush and Market Streets.
opposite Oriental Hotel, Sun Krancisco, Cal.

## LEWIS COFFEY

CHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
$\mathrm{M}^{1}$
 ieal Justruments, seale, Woights, ote.e. ste Reparing of Machinery promptly attended to.
No. 4.18 Market atreet, San Franciseo.

## HIRAM WRIGHT, pICR MAKER,

Has established a Manufactury for the Making of MINER'S PICES,
NO 121 BUSH STRGET, SAN FRANCISCO,
[Between Sansome and Battery,]
Where can be had a superior Pick for Minery use As he mannactures all ho warrant.s thern an being made of the best material aud by the best workmansbip. Orders attended to and filled promptly and with ris-
patch.
augi7

## WRIGHT'S PICKS,

JOHN WRIGHT, of Sacramento, has estabished hum-
self in Sun Franciser, for the manufacture of every
self in Sua Jrancisel, for the manufacture of every
description of PICKS, of ihe best materint, at reducen description of PICKs, of the best materinh, at reducen
prices. Pick Eyss of the beet iroul furnishod in any quan
tity, at low rates Orders from the country promptiy tity, at low rates Orders from the country prompliy
atteaded to. N. B. None puruine unless atampod witb my name. Opposite Battery, San Frazcisco.

## CALIFORNLA TOOL WORKS!

John Weichhart, All Kinds of Edge Tools, Etc.,

Mouldang Irons,


SILVER DISCOVERIES IN OREGON.
The Dulls Journal publishes correspondence from Wasco county Southern Oregon, announcing the lact thut a large percentage of oilver luta recently been discovered to exist in the copper ures of that viciniy. In addition to silver in connection with copper, regular silver ores have also been discovered. The correspondent alluded to says that these silver leads have beeu discovered since the 1st of August, and that athough none of them had heen assayed, they have been sufficiently tested to warrant us in saying they contuin a large perceutuge of silver. Thesilver leads are known as the Barker lead, which resembles exactly the Comstack lead of Washoe; the Mammoth, the Home Ticket, the Fultu and Pioneer leads, we ane now prospecting, and as we go down, thay improve in quality.
A great draw on the mines of that region is found to exist in the lack of facilities of transportation. The miners are talking of putting up furnaces for reducing their ores to reguluc. They will find it a hazardous experiment, except it be done hy parties of the fullest experience: Much confidence appears to be felt in the future value of that region. If such anticipations are realized, on a proped development of the mines, neither capital nor facilities for tramspurtation will long be lacking.

Eye, Ear and Throat.

## DR. DE CASTRO, Oculist and Aurist,

WHO HAS PRACTMSED IN NEW such urivalled succen, und frum each placo is th posseg-
sifu ol the moxt emueut testimoulais, may now be consultod upon divenses on the ced deltente orgnis), with a view


## Self-adjusting Axtificial Tympanam,

## For the relier of deadine-s, a atouded by los. or injury of the menaraua tympuit, anld lior the curs of disclarge

 of "lleufutes Irractuculy Mllustrated as to ita Neturo abd
 duced tw the lustice of the profession nt the mee ting of the

 the nrighinul distavery. Mr. .
 trum it. She was in frct, quite deaf, and tha most mis-


 Keurny streets. Eutriuct on Mariket street.
nos Mr. Editor-Having been aflicted will deaficess fur tho last two yeare, originating from a
gevere cold, and for the last mouth sullerthg fron tho

 Kearny yud Marke stresets, and dudecweat ene operation, mad It is with the utmost pleasure I cau suy my hearidg
was sudlen!y and withont pala untirely restures. I deem was sudden!y and withont pain entirely rentured. I deem
it ny duty to make this keown to the bublic, uud to re-

Jamear Callaghan, witneess
Sas Francisco, July
sau Francisco; July 30th, 1883.

> [Fram the Disily Alta,]

En'R DARTALTA:
ban Francisco, June 30Lh., 1863.
tormit me through your widely circulated jouran) to dealucex sivce she was thir wen tnontlus old, and that yhe has bred a member of the Dear und Lumb lustitute siuce
it wha organized. On unkwe hur to Dr. De Castro on

 Way to get permaneat relief. The result, thus far, is sat-
isfactory; and Idem this notice due to Dr Do Casto for
his kstil ; and would recommed all partes similiarly his skill ; and would recommend all parties similiarly as.
ficted 10 give him $n$ trial My thaghtur has at difforent
 Rnd Rurists in Califitrnia, but up to the period of visitiog
Dr. De Castro, received no benefit
CHAS JUNN. WRIGHT,

## APARTMENTS,



MINING NOTICES

| Wide West Copper Minimg Company, Office. 528 Montgomery street, sau Franciven, septemmer 10, 1863 -Notice is hereby given that an and and every share of the capital stock of the Wide West Copper sliaing Compans, and pajable immediately in U. S. Gold Coiu, to the Siceretary, at the nfice of the Company, or to J. M. Pike, Superintemardnt, at Copperopolis, By order of the Board of Trusteen. sepl4 <br> M. G. ELMORE, Secretary. |
| :---: |
|  |  |
|  |  |

Ball Eagle Gold and Sitrer Miniug Company, Cold e'lat District, Novadn Co., Cnl.- Votice is
her byy given thut an assesmeut of Tweuty five ceuts per sbare las this day, (Soptember 9th, 1863.) beetu leived b the Board of Trusteos on the Assesssubile stinck above naned companv, aud payable inimerlially io Jui ted States Gold Coin to, the Secretary at his olfico, or to
T. S. Smith, Super miteudent, Grass Yalley,
T. L.
seplisim

Winona Gold and Silver Mining Company - The tirst unaual meeling of the stuctholders of
the Wiuna Gold aud silver Miusing Company, will be
held ut the Company's office, No. 428 Mont Gumery sireet held at the Company's office, No. 428 Mont Eunciry street
for the election of bive Truxters for the ensuing year, on the 19 h day of September, 1863 , at $71 / 2$ P. M. By order
of the Board of Trustex,
M. G. ELMURE, Sec'y.

Red Jacket Mining Company.-At a meeting of the Board of Trusfees of the ibluve cotppany
held July 7 , 1863, the firse nsecsament of Five Cenle per sharo on the capital stock was levied, payable immedi-
ately in United States gold coin, to the Secretary, oflice 420 Montgomery street, Hoom No. 2 . By ortler of th
Board.
J. W CROSLEY, Secretary.

Office Table Mountain Coppor Mining Company, held July 25 , 1863 , an assessment of Thirt Cents per share was levied upou the capital atnck of said Compiny, payable immediately in Uuited States gol cuia to the Secretary, at the offe of the Comprapr, No
528 Montgomery street, or to J , 528 Montgomery street, or to J. M. Pike, Surperinten
dent, at Copperopolls.

Offee of the Niagara Consolidated Gold and Silver Mining Cumpany, Elturado Cauon-Notice hereby given that the Buard of Trustees have this day
levied an ossessment of Twenty-fve Cants per share upon cach and every share of the capital stock of the sa Compauy, payable in U. S. gold coin imnoedrately to the Secretury, at the office of the Company, No. 528 Mou gomery street, or to the Contractor at the San Francisco, July 20. I863. G. ELMORE, Secretary.
nug2

## MIINING LAWS AND FORMS

JUST PUELISHED BY H. H. BA NCROFN relating to Miving Corporations, Assesments, ete,, with digest of decisious of the Supreme Court and Fcrms for
the Incorporation of Gompanies. Compiled by H. B Congulon. 12 mo., fexible cloth, $\$ 1,50$. For sale nt al the Bookstores.

## R. MI. MYERS, \& CO.,

Ohases' New Mill, Fremont Str, near Market,
JOB TURNING \& SCROLL SAWING BRACKETS,
RED WOOD BANNISTERS NEWEL AND CEDAR BANNISTERS for Stairs.
Manufacturers of every description of 0 val , Oircular and Square
PIOTURE \& LOOKING GLASS FRAMES
All kinds of Desings for Bullding.
BOOK KEEPING, Penmanship
oommerolal oaloulations, Taught by J. S. LUTY PRACTICAL ACCOUNTANT, 305 montgomery street, Corner or Pine

## EXCELSIOR IRON WORKS

712 Sansome street,
Between Jacksou and Pacific, San Francisco. GALLAGHER \& KENNEY, Manufactulers of all kinds of
Architectural and Ornamental Iron Work, Bauk aud Store Vaults, safes, Doors, shuters, Bad-
couy, Area and Cemeiery Rululings, Gutes, Suirs,

bing done with promptaess,
Reasouable Prices.
Orders trom the country pricmes. $\begin{gathered}\text { Reas } \\ \text { jomptended to. }\end{gathered}$

MINING CARDS

## aldexander stort,

MINING SECRETARY 512 Sansome Strvet, San Fruicisco.
Secretary of-
Hores Shoe, Silver anu Copper, Monte Diablo.
Daumse Wravtri, Gold and silver, Devil's Gato.

T: U. Sanborn \& Co. STOCK BROKERS,
No. 630, Montcomery Street.
$\mathrm{O}^{\text {r }}$
PHir silver mining stock,
GOCLD \& CURRY aining stock,
CTOLLAR MiNiNG STOCK,
California steam navigation cós stock, BOUGHT \& SOLD.

## J. f. mLikr.

## MILLER \& COLEY,

Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

## Between Culitonaia and Pine, iu Jerome Rice \& Co's Real

Estiate Nalea Rooms, Sull Firanci-co.
ALL KINDS OF STOCK AND MINING Business aticnded to with Promptaess sug17
L. F. LELAND,
STOCK BROKER, No. 621 Clay atreet,

$\xrightarrow{\text { Membor of the San Franciscos Stock and Exchange Boar }}$ jo-29
E. T. PEASE, R.S. CURNING, SAM'LC. BOWLEY

PEASE, BOWLEY \& CO., Real Estate, Stock and Exohange BROKERS, o21 Hontgomery street, San Franicigco.
Legal Thnder Notrs and Mining Stooks, BOUGH'J \& SOLD.

\section*{AGENOY <br> For the Purchase and Sale of <br> mexican mining stocis <br> At No. 411 Clay Strect, San Francisco. <br>  <br> all persons are invited to call and examine Ores from <br> | be above raines. WM, FAULKENER. |
| :---: |}

## New Bedford Copper Company,

$T$ Uge UNDERSIGNED HiVNEG BEEN APPONNTED Iar supplies of their supertor manufactures of

Sheathing Copper;
Brazirr's Copprr;
Copper Bolis;
Yellow Sheathing Metal;
Corper and Compostrion Nams;
Which they offer to the Trade at the lowest marke
ate, and on the most favorable torms.
$\begin{array}{cc}\begin{array}{c}\text { ate, and on the most favorable torms, } \\ \text { NORGAN, }\end{array} \\ j e-29 & 108 \text { From Steot, San Francisco. }\end{array}$
R. W. FISHBOURNE,

PRACTICAL LITHOGRAPHER,
ENGRAVER AND PRINTER,
$\mathbf{N}^{0 .}$ San Fraucisco,

 Saien tor.
diteended do.

## MINING


MYERS \& DAGGETT'S
Mining and Stock Exchange,
Mining Stocks of All Kinds Bought Sold.
 *** $^{*}$ Abstracts of Titles Furnished, Etc.

BUSINESS CARDS.
Napolecil Copper Mining Company


COMPANY.
Quartz Mill and Furnaces, Bryant Strêet,
Crossing Third, San Francisco.

## receive all kinis of

## ORES AND MINERALS,

in large or small quantities, for such Experienced Trea
Cox

Lates European methods,
As may be ascertained by
CAREFUL ANALYSIS,
At their works, to be the must Effectual in obtaining re liable resnlte, and aftorwards converting whatover pre cions Metals they may contain, into markeluble Iugoth,
no The South Park, and Folsom and Kearnystreet Cars Ra, The South Park, and Folsom and Kearnystruet Cars
pass Bryaut street.

## The Pacific Mineral Compnay

$\mathbf{M}^{\text {ake liegral advancis upon the orts of }}$
Copprr, Siluver, Titn, Nigekel, Cobalit, Zinc, Leid, and Sulphurers contaning Gold.


 smiuation, such head sire
to jusi ify suuch expenditure.

OFFICE, No. 1 , ODD FELLOWS' HALL,
jo1-te
Monigomery Street, SLa Francisco.
MARTIN \& Co.,
OFFICE--224 Montgomery Street, Up Stairs, WLLL CONTRAOT FOR TEE
Purchase of Copper oress Arsaying 8 per cont and upwards of Coppor to the Ton. We will make ADVANCDS upon Ores of COPPER, TIN abil Nack will be furnishes and Freights Paid on all con
siguments if degired by the conniguors. signments if desired by the conniguors.
Henry Martin, J. F. Grbenman, San Francisco Port Oficios, Box 1269 . je 1.
San Antonio Gold and Silver Mines,
FORWARDING \& IIINING AGENCY.
SAMUEL SMITH,





## H. C. KIBBE, IIINING SECRETARX,

Commissioner for Nevada Territory 542 Sacramento st., cor. Montgomery (armory hall.)

BUSINESS OARDS.
SOU'TH PARK
Quartz IMill and Reduction Works,



## W. W. HANSCOM,

## Steam and Mechanical Engineer,

Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machivery, ete., rtc.,
At Golden State Irom Work,
aug $x$
First Street, San Francisco.
TO MINING COMLPANIES!
Offices To Let. SUIIES OR SINGLIE ROOMS, in Goverinment Block,
N. W. Cor. of sumbume aud

El Paso District, Los Angeles Olounty

## MINING AGENCY.

O. W. TAPPAN, GENERAL AGENT,
"Head Quarters," Mesquit Springs,


## IIINING \& SIENTIFIC PRESS.

THE ONLTMINLNG, MECHANICAL AND SCLENTIFIC PAPER ON THIS CONTINENT.
THIRD YEGAR: VOLUME VI-NEW SERIBS!
A uew volume of this extensively elrculated paper
commenced Hept. 11, 1862 . It is intended that overy number shail be repleto with infurmation concerning Miuing, scicutific, Mechaniona and Industrial pursuita, togother with soveral original engravings, of new invontions, etc., prepared expressly for its columiss,
This paper is devoted to the above purposes, together
with the interests of Science, Arte, Agriculture and ComWith the interests of Science, Arts, Agriculture and Com-
merce, and any general information that nay be of th-
terest to the reador : and it is the intention of the propriotor to spare do paius or expense in making it equal in interast and valuable foformation to any paper yot published The Mining Interest I
Wil fid it of great value, as it will contain all the news apperlaining to Dining, tho prices and sales of Ma
ning Stocks, uew inventions of Machinery adupted to tist purpose, and of every thing generally that may be of service to the Mher.

> The Inventor!

Will and it an excellent medium for the purpnse of bringing his invention into notice, of ascerkainiug the progress of inveation in this and other countrics, and also of roceiving any information that may be necen-
mary in obtaining his patoot, the proprietors having had great exnerience as Patent Agents, together with faollgree at Warlhington that Buable hom to obtain Patonto
ith dispatelh.
The Mechanic and Manufacturer !
Will be greatly benesitted by its perusal, as its col-
umus will tron time to timo contau original engrave umus will trom time to timo contum original engrave
inge of new machines and inventions, toge ther with a
large amount of teading mutter appertaining thereth. large amount of reading mutter appertaining therem.
Wo aro constantly recelving the bebt acientific. jour-
nals from all quarters, from which wo shall couthue nals from all quarterg, from which wo shall couthue
To Chemists, Architects and Millwrights. This jourual will be invaluable. All new discoveries
 will be fouvd in our columas, The Farnoers and Plan.
ters will not be neglected, engravings will be given of agricultural implements, amd the farming intorest generally will beamply discussed.

## To mall subscribers:-Ferming Dilars perannum

Five Copies for Six Mouths,
Ten Copies for Six Mone
Ten Copies for Twelve Months,
Ten Copies for Twelve Montls, $\$ 30$.
Fiften Coples for Twwelve Months, 844 .
Twenty Copics for Twelve Montls, $\$ 56$.
For all clubs of Twenty and over, the yearly subserintion is only $\$ 2$ so- Names caus be sent in at differ-
ent times and from difcrent Post-ofires. Sprelmen copies will he sent gratif to any part of the country.
EWER \& SMITHE, Publishers, Room 57, Government Fotssc, Corner of Washing


## REMOVAL.

## The Office of the Mining and Sienentifie Presse, has been

 semoved to Ruoms Nos. 56 und 57 thovernment House, corner of Wawhington and Sansome Streets. We have been induced to make this change of location, not only with the view of securing m re room and better accommodations for ourselves, but chiefly to better accommodate persons having bosiness with the office. Our location is now central, easy of access, and in the direct way of the chief travel of the city to and from the Post Office.
## INVENTORS AID ASSOCIATION.

Ever since lobor-saving machinery has played an important pait in the production and development of wealth, it has been well known that many valuable discoveries have been kept long from public knowledge, by reason of the lack of pocuniary means on the part of inventors. It is not unfrequontly the case, also that important inventions are thereby entirely lost to the world. To obviate such an evil and to foster and encourage inventions and industrial pursuits generally, an Association has recently been formed in Paris, known as "The Society of Credit for Inventors," which has for its object the assistance of inventors, by fumishing those who have made valuable inventions, but have not the ability to bring them out, with the pecuniary means for doing so. The Association is a kind of Banking Institution and its action is regulated by two Boards of Officers; the first condsists of scientific and practical men who pronounce upon the trechnical value of an invention or improvement ; the second Board estimates the probable prospects of the same in a fimancial point of view. The two Boards, in conjunction, as they deem it necessary can call in competent persons, ex perts, with whom to advise in matters upon which the Board may not feel themselves thoroughly informed. Of course, the losses which must sometimes occur, will be met by the large interest obtained from successful operations.
Much benefit is expected to be derived from this Association, in the stimulus which it will extend to national ge nius, and national values which will thus be created in the field of mechanical research and-improvement. The idea, we believe, is new ; it is certainly generous and noble. Under its workings true merit can scarcely fail of its reward. We have often seen the need of such an inslitution. Indeed as we write, we have our mind upon some two or three inventions in our own State, of the most undoubted value which are remaining at rest, from the lack of means on the part of inventors to properly bring them out. Two of them are full of promise of the utmost importance to the great mining interest of the State. Of all countries in the world our own is most in need of such an institution. Such an enterprise, properly managed, could scarcely fail of being a good investment to stockholders, and a healthful stimulus to the genius for discoveries and invention so characteristic of our people.

## HYDRAULIC MINING.

We notice a well written and suggestive article in the ble, so as to be capable of couvenient use and at the same Sacramento $C_{n}$ non of the 18 th instant, on the general sun- time possess the eapacity of resisting the pressure to which joct of Mining on the Pacific Cuast, in which Hydraulic it is necessary to expose it. Any person who ean aceomMining is mentioned merely incidentally. Wonderful as are plish this object will do as much to advance placer mining, the developments which the writer of that article truly de- as McComick with his reaper has done to advance agriculture. scribes as being nabe in the search for the precious metals. There is money-there is fortune in the idea. A more worin their mative lodes of quartz, the deep placer diggings, now thy object for a leading prize at our State Fair could not be so extensively being worked by the upplication of hydraulic mentioned. power, are worthy of mor than a mere passing notice.
For the first few years after the discovery of gold in California, nearly all the precious metal was taken from surface, or placer diggings. Millions of dollars were taken out mostly from these shallow deposits. Of late years this class of diggings has been dropped by white men as anprofitable, and has now nearly all passed into the hands of Chi aamen.

As these shahlow diggings began to give out, the miners gradually opened up a new class of deposits known as "deep diggings," which are worked by a new process first introduced into practice in California and known as hydraulic min-ing-a process too familiar to most of our readers to need a description. The more shallow and most ensily accessible of this class of diggings were first aitacked, and with very good success, by a low pressure of water. As these diggings were traced further and still further into the hills, a larger volume of water was needed to break down the hanks, and a higher pressure, partly from the less yielding nature of the gravel and in part from the necessity, as the bank before the miner increased in height, that the pipe-man should stand at a greater distance from his work to secure safety from the caving down of the gravel, as he undermiued the same with his stream.
In order to meet this constantly increasing emergency, vaious devices have been resorted to for strengthening the hose so as to make it stand the desired pressure. Double and treble thicknesses of canvass have been employed at great expense, and galvanized iron hoops have been contrived for the manufacture of "crinoline hose," as it was termed ; the expedient of securing hose by winding it with small ropes has also been attempted, but all without any decided degree of success, for various reasons, which it is unnecessary to enumerate here. The developments of this branch of mining are most important and interesting, and the progress in that direction thus far, encourages us to hope for an almost uninterrupted extent of these deposits. Our deep diggings are very much like our quartz mines in the nature and immediate consequences of their developments-The more, thas far, we have opened thern, the more extensive are the proportions which they assume ; and even now more ground of this description has been proven than can be worked out in the next fifty years. At this time and forever henceforth, he cheif part of the gold from our placer mines must come, Amador, to make collections and solicit subscriptions for and from the "Hydraulic diggings." The only serious drawback Mining and Scientrfio Prrss. Mr. H., wha is a thorough to this class of mining is the difficulty encountered in ob- practical miner and well skilled in the use of the pen withall taining hose of sufficient strength to stand the immense, will also act as correspondent, and furnish much valuable inpressure necessary to prosecute this work with success in formation with regard to the copper mines of those important deep ground and in hard, cemented gravel. It has, for some counties. We bespeak for him a cordial reception from aur deep ground and in hard, cemented gravel. It has, for some counties. We bespeak for
two or three years, been held a desideralum of the greatest mlning and other fricuds.

## CALIFORNIA COPPER SMELTING WORKS.

The first result from the Copper Smelting Works at Antioch came down on Monday last in the shape of a bar of copper, the first copper ever obtained outside of a cracible, on the Pacific Coast. Any doubt which may have hetherto existed with regard to the suitableness of Mount Diablo coal for smelting copper has been removed by the success thus attending the first "firing up" of this furnace.
The field of success seems now fully opened to the Company, and the only obstacles in their way, other than those of their own creating, will be such as are always incidental to even:well understood undertakings attempted in untried localities and under ordinary changes of circumstances. The introduction of a new industry into the State, and one of so great importance and complexity as the one just initiated, is not to be fully accomplished except upon much thought and the exercise of the most mature judgement.
Too much credit cannot be given to the idifatigable Secretary of this company, R. W. Emerson, Esq., who has conceived and brought to a successfull state this important enThe stokholders of this company, are not the only parties who are interested in a favorable result. The entire California public are watching with much interest the developments which this company is making in a branch of iudustry, which if successfull, will open up an almost illimitable field for the employment of capital, and add millions of dollars to the palue of a most important class of mines, which are just now begining to be opened up among us.
There are numerous mines of low and peculiar grades of ores, already opened and to be yet discovered, which can never have any value except upon the hypothesis that the ore can be smelted here. Every mine property in the country is interested in the present experiment; as there is no mine which does not turn out much ore that will never pay either for shipment or transportation. The pioneers in this enterprise may be considered in the light of public benefactors. We shall watch with much interest the further development of these works.

Spfcial Notice.-Mr. Lege Harnett has been appointed our Special Agent to visit the Counties of Calaveras and

## OWEN'S RIVER CANAL COMPANY.

This company has been incorporated for the purpose of constructing a canal in Owen's River Valley in the Counties of Mono and Tulare, State of California. Its object and prospects are fully set forth in the following Prospectus just issued by the Company.
The principal object is to furnish motive power to work the vast number of Mineral Lodes, in the Inyo, and Russ Districts, (situated in the Inyo Mountains, on the East side of Owen's River, commencing at the foot of Owen's Big Lake extending thence northwardly the entire length of the Lake and (River,) also with a view to the transportation of wood and lumber, from the timber regions at the bead of Owens River, to supply the Mining and Agricultural wants of the country along the line of the canal and adjacent thereto.
The scale on whichi the canal is planned is sufficient to admit of its employment as a means of transportation. A careful survey has been made by J. E. Clayton, a compe tent Civil Engineer, employed for that purpose. A. Litho graph Sketch of his plan, and some brief statements based upon his report, or some extracts from it will give the reader some idea of the work, feasibility, costs, and results.
"I found," says Mr. Clayton, "the poict selected by Messrs. Lambeth \& Whigham for the mouth of the canal, exceedingly well adapted to taking the water from the river, commencing as it does at the southern extremity of an arm of the river, forming a natural canal for nearly one-half mile, and about one and a half miles above the new town of San Carlos, on Owen's River. The Arm or Slough, as it is sometimes called, bas high banks which are never overflowed by the highest stages of water. The river is very narrow, at its junction with the slongh or natural canal being not over sixty (60) feet wide, and the most feasible point for the construction of a dam on the river. You w ll find it marked on the sketch as Initial Point, showing the level of the river as found at that date-November 20, 1862 .
The singularity of this river is that it discharges a constant volume of water, being fed only by springs and the gradual melting of the snows, annually deposited upon the Sierra and Inyo mountains, whose tops rise to the height of 4,000 to 6,000 feet above the level of Owen's Valley, which is a beautiful valley formed by alluvial deposits from those two great ranges of mountains, and averages about ten miles wide, and 140 long. It contains by Government Survey, 592,040 acres, 200,000 acres of which is splendid agricultural land, all of which has been surveyed and sectionized, and the Plats returned to the Land Offices, at Visalia and Stockton, a copy of which can be seen in the Company's Office.

Through this valley flows the waters of the Owen's River, which takes its rise in Mono county, about 40 miles southwest of Esmeralda, on the Eastern Slope of the Sierra Nevada, and in the midst of a dense forest of Pine, Fir, Tamarack and Oak, which line its banks and extend back for many miles, showing that an unlimited supply of timber is here to be had for the country lying South, which is now destitute.
It then meanders through this valley, with a gradual descent of about 20 feet to the mile for a distance of 140 miles and empties its waters into Owen's Lake. It is said to be navigable for steamers of 75 tuns burthen, (after the contemplated improvements are made,) at the lowest stages of water, and will afford, at all seasons of the year, an unlimited supply of water for Mining, Milling and Agricultural purposes. And, unlike most rivers in California, the supply is greatest in the summer season, the time it is most nceded, and never subject to sudden rises, which is an admirable feature of this enterprise.

We will now show by facts and figures to all parties interested in the Owen's River Mines, the great advantage to be derived by every owner of "feet," and the owners of canal stock, when this great enterprise has completed the first five miles of the canal. The Stean Mills now working in Russ District, find by actual, experience that their motive power for a ten-stamp mill cösts $\$ 60$ per diem, or $\$ 6$ per tun for each ton worked, to say nothing of the many other contingent expenses, which are continually occurring where steam is used as a motive power.
The Canal Company proposes to furnish water for a motive power at one sixth of that cost, or for one dollar per stamp, and perhaps less.

According to the estimate of J. E. Clayton, the engineer of the Company, there?will be andficient volume of water in this canal to run fifty mills of 20 stamps each, making a total of 1,000 stamps. We have no besitation in saying that in a
few years, all the water to the full capacity of the canal will be required.

Allowing 20 days as the ranning time of the mills per month, one mill of 20 stamps, would give a monthly yield of $\$ 400,00$.
For 50 mills of 20 stamps,
. $\$ 20,000,00$.
Allow for salaries of officers and emplojees, re-
2,000,00.
The net result would be.
$18,000,00$.
or $\$ 216,000,00$ per annum.
The returns from the motive power would soon re-emburse the first cost of the work.
Other sources of income from the canal-transportion, irrigation, lumbering, etc., need only be referred to.

It is no stretch of the imagination to suppose that fifty mills, of twenty stamps each, will be in operation inside of a few years, when we turn to Washoe and see there, to-day, one hundred malls in operation, some of which have fifty stamps, and still more are being built.
We here quote from the Territorial Enterprise the following statistics :
"The number of Mills in Nevada Tervitory is 100, ranging from five to fifty stamps each, which are in constant operafrom
tion.
The
The following amount of treasure has passed through the office of Wells, Fargo de Co., at Virginia from April 1, 1862 to July 1, 1863.
For the quarter ending April 1, 1862,.......... $\$ 270,000$.
570,000 .
$800,000$.
956,000.
1,270,000.
1,600,000.
Total amount for the past eighteen months, \$5.466.000. Estimated amount of the yield of bullion on the eastern slope for the year 1863 :
Virginia City,
$.6,000,000$.
Silver City and Gold Hill,.
Empire, Ophir and Dayton,
Esureralda,
Reese River and Humboldt,
10,000,000.
8,000,000

Total, $\$ 30,000,000$. hipped to San Francisco."
It is confid + ntly asserted by intelligent parties who have made it their business to examine the mines, and the resources of all those vast mineral regions, that Owen's River is not second to Washoe in its future prospects and destiny.
To assure the Public that this Stock has an intrinsic value, and that the Company will be in a condition to pay dividends, at an early day, the trustees have set aside to be sold on account of the Company, 3,000 sbares of full paid, or unassessable Stock, and 2,000 shares of assessable, the proceeds of which shall be applied to the completion of the works.
The office of the Company and its place of business is in San Francisco, 328 Montgomery street. A. J. Downer \& Co., 406 Montgomery street, are the authorized agents of the Company, who will dispose of the Stock in such quantities as may be desired-and give such information to parties wishing to invest, as they may require.
We would here beg leave to call attention to the fact of the trustees haring set apart the one-half of the capital stock to be sold on account of, and for the benefit of the Company. It is obvious, that a Company with such large resources in in the way of marketable stock, will seldow if ever be obliged to resort to assessments to prosecute the work. In no case, is it reasonable to suppose that there will be more then ten per cent. of the capital stock called in by assessments, and that would be at such intervals and in such amounts as not to be felt by the owners of assessable stock.
Eistimated cost of ten miles of the work, as made by J. E. Clayton, civil engineer:
Dam in the river,..
\$2,500,00.
Lock and flood-gate...
2,500,00.
Iron and smith-work,
500,00 .
Lumber for waste-gates aud various other pur-poses- 30,000 feet, @ $\$ 150$ per 1,000 feet,
$4,500,00$. Excavating the first section of five miles to De Bend City -4 feet deep with an average width of 27 feet, 105,600 yards @ ,30,.
Excavating 5 miles, additional, to a point at the
Union Lode-105.600 yards @, 30,.
For improving the cañon 15 miles,
One Saw Mill, in running order,. .
Contingencies,
31,680,00.

improvements for 15 miles, etc.
$\$ 163,360,00$
It is manifestly evident that this Canal. when completed will furnish motive power for runing a quartz mill at a cost of not more than 25 per cent. that of steam power. This would be a saving to any company working a tea tamp quartz mill in Owen's Valley of full $\$ 40$ per day, or $\$ 800$ per month of twenty working days. This saving upon the cost of steam power would enable a company having a paying lead in that vacinity and a ten stamp mill propelled by water from this canal to make a dividend of one per cent. per month, on a capital of $\$ 80,000$, This additional. value of the stock of the mining company would give an enbancement of $\$ 40$ per foot upon a mine of 2,000 feet mining ground. The increase of value to the mine upon a large scale of operations can be readily perceived.

## [From an Ocousional Correspondeut.]

Virgitina City, Sept. 12, 1863.
On my way over here I stopped at the Zinc House Mines and was almost astonished to see some of the good looking ore beiug raised and sacked. The remembrance of a former excitement, of surface gold diggiugs in that neighborhood, had prepared my mind to doubt all their pretentions. I obtained a few feet in two different locations in which some of the leading Bankers of Sacramento City and Nevada County are owners.
I was sorry that I did not possess an agency for your paluable paper, whose claims I ably adrocated, and no less than two parties promised to raise a subscription clab and send on.
I had a clipping in my memorandum book, on "Copper Ores and Prospecting for Copper," that would really have been worth to some of them the whole price of one year's subscription.
An old lady friend was eager to know if a certain heavy specimen she exhibited to me was not silver ore.

The application of a pocket magnet showed unmistakable indications of iron. At their mine near the House, were three classes of rock saved separately and each class suspected of being mineral and perhaps rich ; but in what metal they knew not. Why all this suspense and laboring in doubt, when by their using the plain instructions given from time to time in your paper, and by an outlay of not more than one dollar for chemicals, they can make scores of tests as to the quality or kind of mineral they are handling; and by a little practice will find it sufficiently accurate as to qual ity for all purposes of the prospector? You need a good traveling agent all the time on the miners' trail, or rather I mean the miners all need just the information given in the Scifntific Press, and I fear will not know of the paper only through an agency.

I would hiut that it is my opinion that the Pocket Magnet could be used much by our prospectors, where it is nop used but little. For example, in my little trip over toward Walker River, S. E. of Virginia City, about 38 miles, in the new district called "Silver Lake," I carried only a small horn and a small pocket magnet.
During the first afternoon, I and a companion from jour city, visited the principal claim owned by Washburs \& Co., and on returning to camp, found much float mineral rock. My companion filed a caveat on these good indies tions, and left that evening for Virginia City, with samples for assay. The next day, solitary and alone, I stroiled around the hill sides, finding more and far richer samples and masses of the same. I broke off with my hatchet some good samplas and pulverized them on a smooth rock. But lo ! the mischievous magnet coveted every particle of sulphoret. Yet I carefully took the whole sample along until I found a little spring and there horned off the light and took new proof that it was iron and sulphur and a lit tle mica which had given it somewhat the appearance of horn silver. The other party gave five dollars for a fire assay which gave no button of any kind.

This new district now centers in the Washburn claim which has an immense chimney of quartz cropping out 40 or 5 feet high and 8 or 10 feet wide. The croppings assay ove thirty dollars. The character of the rock is argentiferous galena. They are about to drift through the ledge about $3($ feet below the surface, and are quite sanguine of a big strike. I hope they may, for they seem worthy of good success.
Galena, if it is not rich enough to smelt, has not hitherto been worked successfully by our wet processes. This is noा one of our problems to solve. Some of the experts say lime added will change the lead to a carbonate of leac (white lead $\mathrm{Pb} 0, \mathrm{CO}^{2}$.). I think I will go out to Reese River this fall.
B. W. 0 .

ASSAYS!
Promptness and Accuracy Secured By the Use op tine Most Improved Methods of
A NALYSISI
Advantageous Ternis for Prospector's Clubs and Mining Compauies.

## J. H. CHURCHILL, M. $\mathbf{A}$,



## RIEHN, HEMME \& 00 .,

ASSAYEIRS.
Pfice, Montgomery streat, cor. of Oaliformia

## Assays Made of ores, Minerals

 and Metals,




## BAUNCHEIDTISM,

ine Preserver and Producer of Life. PUE EFFECT OF BAUNCHEIITISM AS A METHOD OF
curimg durate, In a "lait accompli" in mewticine iA ncrula no more proof. The public has crowned B.un-Iri-ltism alremty with an extracordmary patronage, ond


 an find their vuly relier thy the nbove method.
Finturecially can it he applind sucessfully, iu the sprlag
of the yrar to disesses of the ere. Dr. Horchers is the only dectur in Califoraia who bas
ouriginal anries of Dr. Ruecweremp and his original II. Dr. Barchera is also in possegsinn of original lethers
ithe inventor of tiso me:lund by which bo can prove the investar of the method by which bo can prove hat he is perfeet master of the latter.
DR. J. C. BORCHERS. No. 18 Kearney street, and No, 4, Mark's Plato, Firs
ary, No. 5 . Omice hours from 9 to 11 A . M., adil 10
je. 21

WILLIAM BRODIE \& CO., CALIFORNIA FOUNDRI,

## Light and Heavy Castings, Frors pascimion, Hane to ordor. Particular atton

 ancatal.
## Giffards Injectors,

OR SUPPLYTNG BOILERS WITII FEEDWATER whinut Pumps No Mill or Mining Company
all he without ode of these valuable Lustrumente, buld he without one
seud for a Circalar.

DAvid stodmart, Agent

## PATRONIZE home manuracturies!!!

James Longshore, Trunk and Valise Manufacturer, flisok, Wholosaleand Relath, Fine Sole Leather Truaks, hligros, und a flue assnrtment of LADIES' TRUNES conintly
|sug $x$

[^9]THE
BRYAN BATTERY.

Tin vast internst lavilyed in the rmiuction of ores on



 Stump Batwery

## ALONE STANDING THE TEST.

This, with the lmprevements which Experlence han ouly rellible

## METHOD OF CRUSHING ORE.

The Bryas Battikr, as now constructed, ls believed of cumbunatl the improwemeats which tho experietce

## EXCLUSIVELY ADOPTED

liy many of the mast prominent Mining Companios in the country, and have bern, fur the three part yoara, antb-
jected to the moat severo of all tests-that of coustant usc-and in evory case bura boon pronouncod
Effective, Substantial and Rellable.
They are now extensively used thromphont the mineral recions of California, Nevada nnd Mexico, and equalled in any plece of mining machinery.
These Mitla are constructod almant ontlrely of Iron, and, consequontly, are not affectal by the intense heal
and drymen of aimouphere, common to all miniag locallid drynens of a momphere, common to all miniag local
lide are adaptod to

## BOTII WET AND DRY ORUSHING,

nd are warranted to reduce, with tho bame weight of sinmpa, 26 per cent, more rock that any other mill in
use. Fach Battery is complete in itself, and forma a nerfect mill-while any number of them aan bo aulded at a subseqent time-th
uniformity of the Mill

Asan evidence of the increasing favor with which
these mills nro regarded, we would mention that the thesemillanror regarded, we wruld mention that the
Celebrated Oplsir Company firat introduced them into their works in 1830 , aud have been adding a number of Nineteen, runaing seventy-six Stamps,

They are perfectly fitter and set up at our Works, be-
ore shtpoing, each pieco being marked and numhered, org shipping, each pieco being marked and numbered, atter arriving on the ground. They are made of tworsizeas, four and five Stamps ench. The Four Stamp
Battery weighlag complete about B,000 nounds, Battery weighlag complete about b,000 pounds,
nnd the Five Stamp about 7,000 . The Mortar Bod veing
cast in sections, when desired, so that the mills can be cast in sections, when desired, so that the mills can be packod over any mountan road.
Wo annex the names of : few well known Companies Whn have adontod them-running from four to soveuty-
Sve stamps each-to whom reference is mado:

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co., Virginia City,
Tajo Mining Cu.' Mexico,
Sheba Mining Co., Humboldd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co., Owen's River,
Union Quartz Co., Aurora,
Trianfo Mining Co., Mexico,
Napa, Quartz Co., Aurora,
Petaluma Quariz Co., Gold Hill,
Francis Mellus \& Co., Slate Range,
W. R. Churchill \& Co., Mexico,

Willow Springs Co., Coso,
Hews, Howe \& Co,., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smitb \& Clouser, S. F. Reduction Works.
Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO., At the Pacific Iron Works, SAN FRANCISCO.
os 185 to 136 First strect, and 126 to 144

## GUN MAKERS,

1. C. E. KLEDZLG \& CO, DEALFRS IN GUN MATERIALS, 733 Wabhengton wrefe, San Franctaco, TOno Lwor abuvo Kearney struct.]
Reparifg done in a work manliko manuer at tho shor Cilding, nnd also Sllver Plating, hy E. Bxiand. Jeal

## WANTED,

GOLDQUARTz suitarie for CUTTING JEWELRY,
by frontier a. deviercy,
ausi
437 Pine streot, Snn Francisce.


Oregon street between Washington abd Davis and Fro
$\mathrm{Ma}^{\mathrm{a}}$ and Jackson strects, Say Frasclsco. Shutters, Burs Vauth Fice Proor Doors and Torritory, Vuncouver's Lsland, British Columbia, or any phace on the Pa
and dispntch.

Mr. Sims Appreciaten the Pnst liberay patronage of his frlonds, and trusts that he ma
conciune to merit it in the future

For the Informition of Strangers ho would ray that he feols confident that his exper this coast, which his suferior in aurpassed by none o ry town in this state, Oregou, nlso Victoria and the Sand wich Islands, and to be seen on snme of the best buld ings iu San Francisco, fully attesta. A large assortmen
of accond hand shutters for salo at low rates.

## LEANDER RANSOM, Civil Engineer AND

SURVEYOR,
Having been connected with the public works of the State of Ohio for 20 years, and tho public surveys of tho State of California for 7 years.

## ALSO

STATE LOCATING AGENT.
And as such having the sale of 600,000 ACRES OF STATE SCHOOL LaNDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and the balance OFFICE : Second fioor of
er of Montgomery and Califorpress Building, N. E. co

## D. NORCROSS,

Military Gcods of all Descriptions.
Navy Trimmings and Embroideries.
REGALIA FOR ALL ORDERS.

## FOR SALE.

Pumar nam max nam man rum Russia Iron Quartz Screena for Mills; Portable Forges; Cauld linetles; Iead Pine ; Rubber Hose; Wrought Irou Pipe Bibu Cacks ; Couplinga ; Play Fipes;
Cobking Stoves and Hening Stoves ; Cooking Stoves and Hearing Stoves ;
Tio Plate : Skret Iron ; Shect Coppor ; Fruit Cans ef Varinus Kinds ;
Lard and Butter Cans of all Sizes; Lard and Butter Cans of all Sizes ;
Irou Wire Brass Wire ; Copher Wire;
Copper Rivets aud Burre; Iroal Rivuts; Etc.
We are also manufacturers of the

> JNEQUALLED

MONITOR COOKING STOVE Or RANGE For Hotels.

The Oppobition Steauer, Moses 'I'aylor, will leave this port on the 3 d . of October, Passage has been fixed as follows :-
Staterooms, upper deck saloon, \$160; main saloon, 8135 ; second cabin, 890 ; steerage, \$60.
Cifangr of Route.-In consequence of the extreme low stage of water on the Sun Juan river, notice has been given that the Moses Taylor, in her nest trip will run direct to Panama. Passengers will be promptly taken across to the steamer on the other side, which will be there to receive them.
The steamship America, of the Nicaragua line, is to be overhauled and repaired, and sent to the Pacific to run in conuection with the Moses Taylor. The Illinois and Retribution will be the connecting steamers on the other side. The first-named is announced for October 3d. The Company is constructing a new dock on the Jersey side of the river, at a cost of $\$ 100,000$.
Passengers who have traveled by this route speak in the highest terms of the accommodations, and of the gentlemanly conduct of the officers of these steamers.
New Invention.-Ira D. Card, one of the most promising inventive geniuses on the Pacific Coast, has just completed a machine for Tire Upsetting, which by the aid of a lever, will bring to the desired circumference, almost instantaneously, the most obdurate cart wheel in use. Mr. Card will exhibit the machine at the Fairs which soon take place at Stockton and Sacramento. Letters Patent for this machine were obtained by Ewer \& Smith of the Mining and Scientific Press Patent Agency.
G. E. MOORE,

Assayer and Analytical Chemist,
Having estarlishen a chemideal laboratory, cal work, is preparen to execute the Assay and Analysis f Ores, Mineral Waters, Guanos, ato with accurasy and dispatck.

## Refirbrictrs :

Prof. J D. Whitney, state Goologist, Sen Franoisco.
Alsop \& Co., San Francisco.
Sather \& Church, San Franeis
Jobn Parrolt, Sin Frabcisco.
D. O. Mills, Sacramento.
sep14

## PEOPLE'S

OPPOSITION
Steamship Tine! Connecting California and New Yorls via nicaragea.

## GREAT REDUCTION IN RATESI!!

## 750 Miles Shot ter tnan Panama Routos

Tho Fast and Favorite Doublo Engino Steamahip,
MOSES TAYTOR, J. H. Bletien. . . . . . ....... Commander SAN JUAN DEL SUR,
rom Mission street Whar SATURDAY, - - - - OCTOBER 3, 1863 Punctually at $90^{\prime}$ clock, $A$. M. on Connecting at GREYTOWN with the Splendid Steamship ILLINOIS . . . . . . . . . 2500 Tons.

The Moses Thylor, aince her tast trip hns undergon e the most oxtensive repairs. Her decks have been oxs-
tended forward and aft; eribins onlarged, refitted and
 Eo any steamer on tho ncean, been mado by the Central merican Transit Co fre trunsporting passengors across
For further informatio
I. K. ROBERTS, Agent,

No. 107 Washington Street, San Francisco, west of the

## BOOK KEEPING, Penmanship

OOMMEROIAL OALCULATIONS, Taught by J. S. LUTY
PRACTICAL ACCOUNTANT,
Montgomory Street, Corner of Pin

## REESE RIVER.

The special excitement of the day appears to be Reese River. 'I'he daily reports from this interesting locality are really quite exciting. The rush thither, notwithstanding the near approach of winter, increases rather than diminishes. Not only from Washoe, California and Oregon, but also from Salt Lake, crowds of men women and cbildren are pressing into this new silver land. A late Virginia paper records the fact that the day previous not less than 60 names were booked at that point for Austin, the central point of the Reese River region. Many go there with limited means, in the hope of acquiring fortune by accident rather than by systematic prospectiug or lavor. Good leads, in great abuudance, are no doubt already opened, and many more are to be discovered; but there is little probability, that more than one in ten of those now going will be counted among the lucky ones. It is too distant and expensive a country to prospect in without means, and there is not yet sufficient capital there to open, even to a limited extent, (and thereby create a demand for labor) a tenth of the leads already known.

Let those who contemplate going there defer their trip till next spring. But little can be doue there this fall or winter, and the cost of living in that distant region will be very high, to say nothing about the extreme difficulty that will no doubt attend the procurement of proper shelter, even with an aluudance of means at hand. It is feared that much suffering will be encountered there during the coming winter. Most of their flour comes from Salt Lake, a most precarious base of supplies.

## the miners and mlles.

We do not make these remarks from any lack of confidence in the maines. We have the utmost faith, not only in their richness, but in their extent as well. We are fully satisfied that Reese River will prove fabulously rich in silver, and will soon become second in importance to no mining district on the globe!
There are now recorded and located in the mining districts of Reese River about 1,300 diffe ent mining companies. Nearly half are separate ledges. Mount Hope has about 75 companies; Ravenswood, 85 ; Simpson's Park, 230 ; Big Creek, 250 ; Smokey, 350 ; Summit, 100 ; Santa Lee, 70 ; Grass Valley, 15 ; Uniou, 20 ; Cortes, unknown. Numberless new ledges are being discovered and new towns are springing up as if by magic.
Four mills are now constantly running at Austin a,nd Clifton, and one on Big Creek Cañon, and all crushing rock that pays extraordinarily rich. The value of ground in all these districts has adpanced enormously within the past two months, with decidedly upward tendeucy. These mills have already sent down a number of most unmistakable "indications" in the shape of good "sized "bricks," of high assay. Two othor mills will soon be in operation in that region. Of cuarse these mines are as yet but slightly developed. Most of them hare had only the few days of work done upon them necessary to hold the claim until another year. Others have been stripped along the surface, merely to show the continuity of the ledge, and to get out a few tons of croppings for' a test crushing. A few have been opened a depth of a hundred feet or more, by tunnel or shaft, bat what is of the greatest importance, nearly all that have been tested by practical process, have even exceeded all anticipations, and the bricks that are now being turned out daily, are such tangible evidences of the value of the mines as to convince even the most skeptical.

## capital going thither.

Capital - is fast findıng its way into this region, and not a few men of means are quietly at work buying up clains, some for permanent investment, others for speculative purposes. A large amount of European capital is also seeking employnent there. A degree of confidence has already been established which gives high hope of an early and rapid development of the resources of this new Silver Land.

## telegraphic communication.

True to the instincts of the great American people, the practicability of a telegraph lias already been looked into, and a connecting link with dumboldt and the fest of mankind may be looked for early the onsuing season,
cimate, labor, etc.
six feet. The winters are not excessively cold, however. The summers are pleasant anil agreeable. There is an abundance of grass for stock. Howes and mules are ranched and properly looked after for one dollar per week. They may also be tumed loose, and obtain a very good living, but under such circumstances they are liable to change hands sudden1y. The price of labor at Reese River is about the same as at Virginia City. Persons going thither can go most economically with their own animals. The distance from Sacramento is about 340 miles and can be made on horesback in about twelve days. Those who go there, the present season, should be amily provided with funds. Prospecting will soon be over with until next spring. Thuse who go to speculate in "fect" or to erect mills, will do well to go at once. Great numbers of owners of feet will soon be sadly in need of dollars.

## the mines.

Buel \& Co's Mill appears to be particularly busy, and is turning out large quantities of bullion. In addition to the ore from the Yankee Blade and Uniou No. 2, alluded to in our last, as worked at this mill, the Reveille, of a later date, contains the following:-
On Wedsesday the 2 nd inst., there was shpped from Buell \& Co's mill, 1,030 ounces of bullion, the yield of nine and a half tons of Yankee Blade rock ; and 437 ounces trow three tuns of Union No. 2. This bullion was worth about $\$ 130$ per ounce.
On the 11 th inst. a brick, weighing 200 ounces, was received in Virginia City, the product of a small crushing from the Marhattan Company:
We clip the following items from the Reveille of the 5th
The Austria is selling at $\$ 12$ to $\$ 15$ per foot ; the Zouave at $\$ 15$ to $\$ 20$, and Goluen Era at $\$ 20$ to $\$ 30$.
Ario ledge, near North American, is 150 feet wide on the surface, and ussays $\$ 3,100$ to the ton.
Eclipse rock, 14 feet below the surface, presents numerous Takes of native silver, with other forms of the precious stuff The ledge is three feet wide and rapidly iuproving.
Sada. Redfern is the name of a new discovery, made just above Panl street; ledge three feet wide, and rich. They came on it while digging post holes.
Vineyard ledge, anew discovery, has created much excitement recently. It is three feet wide and quite rich; extensious have been taken indefinitely:
Three pounds of Flora rock worked by hand process yielded over one ounce of pure silver.
We have seen quite a handsome button of silver from five pounds of ruck of the Gen. Meade ledge, a new discorery at Big Creek. It was quite promising indeed. The shaft on the Josephine is down twenty feet, and a tunnel has been run to and through the ledge, which is twenty feet wide, and will work over $\$ 200$ in the mill. Uanon City is still improving in a permanent manner.
Mind Your Quartz-Owners of the Governor Moreton took a spacimen of their waste ruck last week and had it assayed. The result was $\$ 29550$ to the ton in silver. The rock tried was a conglomerate casing of a dirty grey color, appearing for the world like old ashes. Hence we come to the gratifying conchusion that silver maty be found here even in the dirt or mixed cases of ledges as well as in the quartz, so largely; no matter how indifferent it may look.
Sarta Clara.-Considerable attention has been drawn towards mining operations in Santa Clara county. They are raming the second tunnel in the Capitola claini, after having struck the lead in the old tunnul at a depth of fifty-seven feet. Several gentlemen trom Copperopolis have recently visited locality, who represent the Capitola rock to correspond well with that taken from the mines at Copperopolis. The Company is in about sixty-five feet, and the indications are constantly improving. The stock is principally owned in San Jose. The claim is located about eleven miles from San Jose in a south-westerly direction, and oue mile above the Ton Miles House, (Beatty's,) on the south side of Los Gatos creek:
The Profidence Company:-This company's mine is locacated in Nevada county, about two miles below Nevada City, on Deer creek-the third cleaning up, from their mill has been shown us, and consists of a gold bar worth seventeen hundred dollars. No assessments have been levied by this company; their mill and workings have all been paid for by the yield of the mine. Eight stamps are now to be added to their mill, making a total of sixteen. We are pleased to notice the prosperity, of this company; as it proves that we have good mines near home, and shows us what good managesuent can accomplish in quartz mining. We predict a dividend in a short time by this company.

## THE MINING sHARE MAREET.

The Mining Share Market has exhibited no peculiar feer tures doring the week. The depression, heretufore noticed, still continues, although a fair amount of business is reported in leading stocks.
Ophir has been dealt in to the extent of 156 shares at . prices slightly improved from the closing rates of last week. The dabage done to this mine by the recent cave has now been fully repaired, and the main shaft or incline, is the best in the Territory, baving been much improved and eularged. Work upon the rich seam in the lower gallery was re-commenced on the teuth instant. Rich ore is still being extracted from the new vein. None of the rock from this vein has been sent to this city for working, as heretofore reported The Company possesses every facility at their own mills for working anything which comes from the mine. The "cave" has been a fortunate circumstance for the Ophir. By it the Company gained a new and splendid incline, an improvement which the dilapidated condition of the old one would have soon rendered necessary, and in consequeace a new vein was struck, which has more thau paid all expenses, taking into consideratiou both the time lost and the cost of imprever ments.
Gould \& Curry shares have met with an advance of fully $\$ 600$, over last week's sales. This advance is owing to the very satisfactory repurt of the Board of Directors who have recently visited the mine. Most important additions are now being made to this Company's mill, to meel the increasing demand of the mine upon the reduction works, Latest accounts are to the effect that two new boilers had just arrived, each 24 feet in length, and each weighing 7,270 pounds. Three more of the same size and weight are yet to arrive. All thesse boilers will be used to drive the now two-hundred-and-fifty horse power engine soon to be erected to drive the amalgamating aparatus in the company's mamomoth mill. This new machinery will be put up in a new addition to the big mill, which addition will be of the same width as he old mill, and some sevent $y$ feet in length.
Savage shares have fallen off $\$ 300$ since our last quotations, with light transactions. The market clused, however, with decided indications of an early improvement:

Hale \& Norcross have slightly declined with light sales. The mine of this company will soon be in a condition fordoing a good business, apon which a decided improvement in its shares may be expected. They have now a double shaft 300 feet $d$ ep from which they are raising from 30 to 40 tons per day. They will soon be able to raiss a much larger quantity. Two mills are now employed crushing the ore from this mine.
Yellow Jacket shares have been much in favor and readily command $\$ 1,050$. Holders, however, are firm, and do not care to part with their stock.
Daney shares have met with large sales; 510 having changed hauds, at fluctuating prices. .
Burning Moseow fluctuated from $\$ 120$ to $\$ 135$, with a large business, 322 shares having changed hands during the week.
The Mexican Company, since the "cave" has put three new shalts down to the depth of 127 feet at which point they have been compelled to stop on account of water, and will not be able to sink further natil they get their engine in operation. They will go down 250 feet before drifting to the ledge. This shaft is one of the best in the Tervitory, and is divided into three compartments. This Company has but 100 feet of ground, yet they have raised some of the richest ore found in the T'erritory. The Company has no stock in the market, but its shares are valued at a fabulous price.
The stock of the Mexican Company, No. 2, is begining to attract some attention. The company has a shaft of 80 feet which has just cut a five feet ledge. The rock looks promis ing: The shaft makes about 60,000 gallions of water per day, which is kept down with a pump. This stock is quoted at $\$ 35$.
The Belvirder Company has recently sold out its orinal shaft to the Choller Company. Since the sale they have moved east about 100 feet, and sunk another shaft upon anclaimed ground, in which they have struck another vein from which they are now taking ont pay rock.
The Sierra Nevada Company is located upon the south side of Cedar Hill, The works of this Company have been
ipuite ricently commenced, with very flatteriag proipects, add liey have done a very large amount of work for the time in thich they have been enguged. We shall speak inure fully H cheir work, in our next iosue. The stuck of this compuny 10 in goul repute.
Uverman shares which last week ndvanced from \$475 to 600, haqu declined to isti5, with a weak market.
Baltic had linctuated with large trausactions.
Fismeraha shares have been racher more active then usual he luat week
Wide West has met witis a further decline, 230 shares havHy changed bands att from $\$ 11$ to $\$ 8$ º.
Real del Munte has further iuproved and is now quoted at 425.

Silver Hill has slightly improved, with much enquiry.
In I'ond qquite large transuctions are reported at speceulative ates. Opening at $\$ 55$, it suddenly advanced to Sio0. T'ho losing uffers are $\$ 200$ bid and $\$ 250$ asked, without sates. he bears appuar to have it all their own way in this stuck.

## COPPER.

The Atlantic papers, in view of the rapidly increasing hipmeints, uctual and prospective, of copper ore from this to iastern ports, are berimning to discuss the possibility that he receipte may soou exceed the capacity of the smelting jurks. A writer in a Now York paper, however, sets the hatter at rest, by showing, very deffinitely, that the works t Bustou and New York, alune, are quite equal to meet any alls that nay be mude upou them for some time to come. few York, it is argued, should provide such facilities as hould render that priat the center of this growing trafic. Stucks in well developed copper wines are held firmly and fill duubtless soon become as desirable for investment as hose ul' it similar class are in New York, Boston or London. n thooe cities they rank, for reliableness, with bank stocks, hid in the latter a copper mine yielding an average of 8 por ent. ore, fully developed would rate at about $\$ 2,000$ per fot. Should one be found there coming up to the Califoris standard, of first class mines, of about 20 per cent, its falue wonld be reckoned at an almost fabulous price. Capitalots, in this State, are as yet slow to appreciate the value of well develup d and reliable copper mine. One promising bine of copper, cren yet in the infancy of its development, * worth a score of the urdinary gold and silver schemes in he ocean of bubbles now floating on the market.
Napoleon has met with an important advance, opening t $\$ 36$ and closing at $\$ 00$ with $\$ 95$ asked. This ingrove lent is owing to very favorable reports from the mine.
The principle sales of the weok have been made at figures ot made public. A number of our prominent business men ave been the purchasers. At 193 feet the lode is exceedhyly rich; width estimated at 25 feet at that deptis with 5 06 feet of cuncentratel ore. The works are being enlarged pidly ; shipments rising 200 tons per month. Ore is being used from 165 feet in depth. 35 men are at work night Ind day.
Several tons of ore from the Aroyo Seco claim, in Amador ounty, have arrived in this city, the past week-the first hipment from that mine. By the same antival came twenvix tons of ore from the Newton mine.
The Piuneer Company's mine, a shorl distance below Iniontown. El Dorado county, is beginning to attract some ttention. 'This mine, besides giving a high assay of copor, is said to return a very large yield of gold.
A small shipment of ore, the lirst we believe from the hine, was received in this city from the Washington Ledge t Cloverdale, in Sonora County, a few days since. The ore was then from a shaft only six feet from the surface, which romises a still farther and plentiful yield of the same.
Our neighbors in Oregon are becoming quite excited about feet," among which copper feet are taking a prominent poition. The latest reported discovery in that region is on the ohn Day river, and 80 per cent. is claimed for the average f a number of assiys. It is said that $\$ 5$ cost of transporation per ton, will place the ore within reach of steam comaunication with this city.

Our Virginia City Correspondence.-We have made rrangements with an-able correspondent at Virginia City, fid slall commence the publication of his letters in our ext issue.

## Rebae River Currency.-Our Reese River friends are

 auch troubled by reason of a great scarcity of small change o remedy this evil a buinpss firm at Austin purposes to esablish a bauk for the issue of small "promises to pay." Anther firm purposes to stamp suall bars of silver and issue them s curreacy. We think the metalic basis will win.

## SALES FOR THE WEEK ENDING SEPT. 19, 1863.

Ophir Falls of Clyde
.156 Shares $\$ 2100$ (@) $\$ 2200$ per foot Great Western Tun.-

## Josephine

| Coso. . . . . . . . . . . 25 | 6 | 6 |
| :---: | :---: | :---: |
| Gould \& Curry . . . 5 5 ${ }^{\circ}$ | 6 | 5,000 @ 5, 5,100 |
| Savage. . . . . . . . . . 17 | / | 2,700 @ 2,720 |
| Cbollar. . . . . . . . . 42 | * | 995@1,010 |
| Hale \& Norcross. . 4 | " | 1,600 |
| Uncle Sam. . . . . . 97 | " | 130@170 |
| Echo. | ${ }^{6}$ |  |
| Baltic. . . . . . . . . . 243 | 6 | 431/2@50 |
| El Dorado. . . . . . . 10 | 4 | 65 |
| North Potosi. . . . . 65 | ${ }_{6}$ | 371/2 |
| Caledonia 'Iun. Co. 65 | " | 25 (a)371/2 |
| Independent, G. H. 90 | /6 | $33 @ 50$ |
| Silver Hill ... . . . . . 35 | " | 24@30 |

50
50
50


COPPER AND COAL AT ANTIOCH.
$\mathrm{M}_{\mathrm{r}}$. Ediror :-In response to your suggestion that some difficulty has still to be removed in the combustion of Monte Diablo coal at Antioch, allow me to say that the mode of feeding a furnace with gaseous combustibles mentioned in connection with the Norwegian mode of treating copper sulphurets in my' letter of the 3d inst., can be adapted to any sort of fuel ; and, in what I consider its most perfect form, can be employed even where the greatest heat is required and with a flame of any chemical character desired in metallargy; and this with economy in stoking. A form of grate which has been of much service with coal of similar properties to the Monte Diablo, is that termed the "Step Grate "-deep furnace bars are laid, stair fashion, ie., their flat sides upwards, sufficiently overlapping to prevent the cinders from falling through, and sufficiently raised to admit air where the risers would stand in a stair-case.
I have working drawings of some of these furnaces. A Poor Chemist.
San Francisco, Sept. 17, 1863.
New Mining Office. - Messrs. W. P. Denckla and A. L. Chamberlin have a newly arranged Office, in the commodious store, No. 418 Montgomery Street, for the purpose of transacting a general mining business. Mr. Denckla was. unanimously elected. Vice President of the new Board of Brokers recently organized in this city. We have never measured Mr. Denckla's whiskers, neither the girth of his waist, and we do not know his weight (as the Alta seems to have deterin the case of the worthy President of the old Board of Brokers) yet we thisk Mr. Denckla worthy of the confidence of the mining community. Mr. Chamberlin is a man of gentlemanly and pleasing ways.

Seminarx for Young Ladies.-Miss Butler, late of the Chestnut Street Female Seminary, Philadelphia, is about to open a School for Young Ladies, in this City. Miss Butler is said to possess intellectual attainments of a high order. We bespeak for her a liberal patronage.

State Agricultural Fair.-The State Agricultural Fair at Sacramento, will commence September 25th and end Octaber 2nd. Our thanks are due to I. N. Hoag, the gentlemanly Secretary, for a Complimentary Tịcket.

## HINING LAWS AND FORMIS

 J \& CO. being a compilation of the Statues of this state digest uf decisions of the Supreme Cnurt and Forms for
the lucorporation of Companies. Compiled by H. B. the Iucorporation of Companies. Compiled by H. B
Congton. 12 mo., texitle cloth, $\$ 1,50$ For sale at all the Bookstores.

## R. W. MIYERS, \& CO.,

Ohases' New Mill, Fremont St., near Market,
JOB TURNLWG \& SCROLL SAWING,
BRAOKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS
for: Stairs.
Manufacturers of every description of 0 val , Oircular and Square
PIOTURE \& LOOKING GLASS FRAMES For the Trade at New York Prices.

All kinds of Desings for Building. R. W. MYERS.
H. C. SOMER

GENERAL NOTICES

## DR. H. AUSTITI,

 DENT1ST,
## No. 634 Washington street,

Between Montgomery and Kearay, (over San Francisco Baths.)
I have recently recelved from London a New aur which is far supprior to any other ever used, It is light clealy and durable, and of a a netural color, The cheap est and best material for temporary (avd in many cases.
permanent rets. All operations thoroughly parfosen permanent sots. All opera
and at coasonable pricep.

## D ESK S

Office Furniture,
OF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE,

No. 423 California Str, San Franoisco. office Jobbing, of all Kinds, attended to.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultural state fatr ALSO; FIRST PREMIUM
At the Sun Francisco Bay District Agricuitural Fair, 1862
Mantractort, whozesalr and'|retafl,
No. 44 Leidsclorff street,
Opposite the What Cheer House, San Francisco.

## charles geddes, ARCHITECT,

Cor. Montgomery and Bush Streats, Over the Mercadtile Library Rooms,
jy 20 San Francisco

FREDERICK MANSELL, MECHANGCAL \& ARCHETECTVRAK. DRAUGHTSMAN,
No. 422 California street, corber of Leidsdorf
Drawings of MoDens made forfparties applying for pat
ents at Washingtou or London.
New Patent Agency

The Patent Agency Business,
And would invite Inventora and Discoverers on the Pa
cific const, who wish Diapatch as well as Economy to
cifc coast, who wish Diapatch as well as EConomy to call
upon us. We have an Experiecoed Agent at Wishington, which, tegether with our own experience of severa
Mining and Scientific Press Agency
The most desirable place to make application for Lettere
Patent on the Pacidc const. Apply at
offlce of the "4 Mining and Scientific Press," Room Offce of the "M Mining sad Scientific Press," Room
No. 67 , Government House, corner of Wrshington and


## FOREIGN PATENTS OBTAINED

 Ee, Roum 27, Goverament HouseEWER \& SMTH, Solicitors.
NOTICE TO INVENTORS.
Inventors wighing to file Caveats should apply at thib
Oflice, Room. No. $\mathbf{5 7}$, Government House. Terms moder-


## PATENT RIGHTS.

Patent Rights Bought and Sold, nlific Prass" Agency
EWER. \& SMITH.
IMPORTANT TO INVENTORS. Inventors who obtain their Patents through this Offic can have their Inventions illustrated and deseribed iu the columns of this paper FrRe of charge, they merely
furnishing the eograviugs. We are also prepared to fur furnishing the eogravings. We are also prepared to fur
nish engraviongs at reasonable rates. Those wlio do no aish engravings at reasonable rates. Thnse whu do not
enro to go to the expense of having engravings prepared
can have their inventions fully noticed and described in our columns, free of charge. The free une of our col-
umus to aid them in introducing their joventions to the umus to aid them in introducing thoir inventions to the
public will be found n most important advantage to in-
ventors. pubic will be found $n$ most important advantage to in-
ventors.
EWER $\&$ SMITH.

## Offices To Let,

 Tn the Government House, Corner of Ollices, the most commodious and naceese helin in tho city.C. A. ChaNE, Proprietor

## GENERAL NOTICES

## HAYNES \& LAWTON,

IMPORTERS AND DEALERS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery
OLOCKS, Silver Plated and Britania Ware, ETC., ETC., ETC. NO. 516 SANSOME STREET [CORNER OF MCRCHANT,] San Francisco.

## WHEELER'S Amalgamating and Separating Pans

It is acknowledged by all who have examined the prin ciples and witnessed the oporation of these Pans, that
they are decidedly superior for triturating and amalgathey are decidedly superior for triturating and amalgamating purposes to any other in use.
The mnst important principle connected with the ope
ratiou of these pans is the separ ratiou of thesc pans is the separation of the trituratiug
process from thr $t$ of extractiog the amalgam from the sand. The chief cause of loss of tbe precious metals arises from the passing off of the same in combination with
the quicksilver, during the proces of trituration, and in the quicksilver, during the proces of trituration, and in
cleaning up By the introuction of the Separating Pan cleaning up By the introuuction of the Separating Pan
to $f$ liow the trituration this loss is entirely avnided. In
working these machines there is no appreclable foss of quicksilver, and hence none of the precious metals.
Where these Pans have been introduced and oporated
by the side of others on sands from the same vat, the by the side of others on rands from the same vat, the
Wheeler Paus bave uniformly gained a large percontage of metals over ite competitors, as woll as a still larger parcentage in the amount of work performed.
*** These Pans man be seen in daily operation, at the Miner's Foundry, on First street in this clty, where al
nterested are invited to call and examine for themselves. 2016-tf

ZENAS WHEELER.

## Wm. P. TAAffee, <br> importer and jobber of

Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and sacramento strects,

## San Francisco.

## REMIOVAL.

OFFICE OF THE PACLFIC METAL
largical Offce is removed to 509 Sacramento street
Having enlarged our Works at North Beach, we are Having onlarged our Works at Nortb Beach, we are
now enabled to reduce from 10 to 15 tous of Silver or
Geld now enabled to redu
Gold rock por day.
Gold and Silver
Goll and Sor diver ore, and Sulphuret Assayo
versmiths' swerines reduce
versmiths' sweepings rednced or purchased.
COPPER OBE - Higheat market rates
COPPER OBE"-Higheat market rates advanced is
S. C. BRADNHAW, Agent,
509. Sacramento stroet, near Sansome.

NATHANIEL GRAX, General Fumishing Undertaker,
641 sacramento st., Cor. of Webb,


## METCALF \& HUTOHINSON'S <br> PHOTOGRAPHIC GALLERY,

## 650 Washington gt. Th

Having refitted the above roums the Firm are now prepared to furnish the public with a superior style of
Picture, at a lower price that ever before ofered in the city. CARD PECTURES.
As we have every facility for producing these beautiluced the price to
\$3. Per Dozen!
Large sized Phntopraphs $\$ 3$-Extra copies $\$ 1$ each.
AMBROTXPES in all Styles and pitces.
or, P PCTUREX conied witt care and accuracy, in any
tyle desired. Particular attention pail to pictures of styly elesi
Chid dran.
Picture Chidran.
Pictures
in India Iu

International Hotel, Jackson Strebt, --....- San Franorsco [A few doors above Montgomery.]
FIRE-PROUF BRICK BUILDING. Most convevient to the
OPEN ALL NIGHT.
City Railroad Cars Pass the Door.
REDUOTION IN PRTCES.
Flie Bathing Rooms attached to the Barber Shop
Warm and Cold shower Baths Free to Guests.
Warm and Cold shower Baths Free to Guests.
1 HoROUGHLY RENOVATED AND NFWLY FURand nished this spring. Every Room opens to the Light Patent suring bed and Harr matitreases. The Iuternation. al offers to guests the greatest number and

Best Furnisheity Family Rooms; and gets as good a table as any House in the City,
I am determined that foe intbrnational shall be the most comfortable, best regulated, and in all respects anperior to any like establishment in the state, auf shall aim to merit a continuauce of the popular favor it lias enjoyed heretofore. It will be conducted on Temperance Principles.
F. E. WEYGANT, Proprietor.

## Tremont House, <br> 418 and 420 .... Jackson Street,

THIS FINE, MTRE-PROOF BUILDING OFFERS MANY 1 advantnges to tho traveler for con vellence. It is only hatr a block from the Post Olfico and Custom Gouse Amusoment.

The Oity Railroad Cars pass the Door.
The House is conducted no Temporance Principles WHICE SECURES TO OUR GUESTS QUIET. The prices for board and Rooms are very moderate-
by the day, meal or week. We sowcrr $\triangle$ OALL Fros All F. E. WEYGANT, Proprietor.

For the necommodation of my many gucsts I have tr sen und refurnished the Intelinathomar. Hotsl, and will wishing to put up at either house may so that Travelere or International Hotel Coach and be taben to either House with their baggage, Free. F. F. WeqGaNT.

## THE RAILROAD

 H O U SE.Nos. 46 and 48 Commercial and Clay Sts., SAN FRANCISCO.
H. T. Felifon
W. C. MINOR,

PROPRIETORS.
The above House is a Fire-proof bnilding, with Granits Front, and kept on the European Plan, with board and lodging by Day or Weels to suit the convenience of our Patrons.
The Rooms are handsomely furnished, upplied with Patent Spring Beds, and Hair Mattrasses, affording very snperior accommodations for tamilies or single persons.
The Table is supplied with the best the market affords at prices to suit tne times.
The Rail Rond House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House Free of Charge.
The Houso is open nill night.

## P. M. S. C 0.

PACIFIC MAIL STEAMSHIP COMPANY' road with the steamers of the Atlantic and racific Steamship Company at Aspinwall.

## FOR PANAMA.

The following Steamshins will be dispatched in the month of September, 1863.

Sept., 23x,

Will leave Folsnm Streot Wharf, with Passengers and Treasure, for Punama

AT 9 O'CLOCK, A. M., PUNCTUALLY,
And connect, via Panama Railfond, at Aspinwall, with For Freight or passage,
A. B. FORBES, Agent.

## REYNOLDS

Patent Cut-0fi and Governor,
FOlk STEAM ENGINES.
187 of these Envasuable Machines, ARE NUW IN USE: Saring 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

Clark'sSteam and Fire Regulator,


Ingersoll's Patent Drill Press, With whet drilling can to dinue tir eate as will the Felt for Steam Boilers, Pipes, Etc.. Steam Engines, Boilers, Pipes,

## Anti Incrustation Fowder,

## Sure themedy for tieales so stema Builera, without lojn-



E. T'. STEEN AGENT.

No. 38 Fremont Etreet, Lan Francisco
MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, Sun Fravecisc
N. B Alt kinds of Boiler and Sheet Fron Work exa terl at the shortest notice, and on the most reasonable

## P UMPS!

HARRISON'
California Lift and Force Pump, withoct valyes or iacking,
Saltenble for Mines, Fire Engines, Wrecking or Irrigatpg. Thiss is the Chealest, Lightest and most Durabie, ented,

ALT. SIZFS;
apable of tarowing from ONE HUYDRED to FIVE
HULSAND Gallous per Milute-For sule by
C. F. HARRISON, Phœmix On Works,

## $10-15$

 517 Front Street, San Fraucisco,50 lbs MARINE and
Hixe-Proof Paint,


ANUFACTURED BY THE PACIFTC METALLDRGICAI W Works in this city, tor Hulls and Decks of Vessels marge and bix other Minorals. When used on the Deck Buthme of Ships, it is equal to a coat of shane, add
nite equal to Copper, no worms will ever eflect it, and wasper than any other paint.

## DIRECTIONS:

For Dectz of Sbups, use two parta Minoral Paint, one Frt White Lead, mixwith Linseert Uil.

Far sale by all Ship Chandlera and Tradesmen, in boxe
60 Its. each, or by the Paciße Shetallurgical Works.

## 95 POUNDS FIRE-PROOF PAINT.

When used on Ronfs, Brillinga, or Fencey, it is equa ro. Proor, and costing less than any paint.

DIRECTIONS :
HOUSE - - Mix three parts Mineral Paint whth one part
noted, mix leas paint, more lead.
Roon:- Five parts of scineral Pant, one part white
nid; mix with Lingeed oil. Put it thick on a tin Roof one coat when properiy applied will last three years.

Prque, Superiatendent.
JORKS, North Beach; Offec, 509 Sae ramento st., Sun Francisco.

FOUNDRIES \& MACHINE SHOXS.
PALMFLR, HANSCOM \& CO.,
GOLDEN OMATE IRON WORKS
No. 10, First Street, sam Franelsco,
Furbish Castings and Machinery of all kinds Also:
Genulnk Wuite Iron Shoeg and Dies. PALMER, HANSCOMB \& CO.
To Quartz Miners.
Knos' Improved
AMALGAMATING PAN, wnu
PALMER'S PATEN' STEAM CMEST. ThE ABOVE, COMBNATIUN SECCMES THE MOST

 se lush Made exclusty+ly ly Hy, kuowa to be Gioldes itatk leow Woiks
Nos. 19 \& 2l Furt Street, san Yraucisen
The public are informed that Letters Patent have beon grauted the uudersignea upou stram Chest False Bot-


## Jons P. Gallagher <br> ..Jonsir H. Wazo. <br> GALLAGHER\&WEED, <br> BRASS \& BELL FOUNDERY <br> LOCK FACTORY.

No, 125 First Strcet, opposite Minns, next door to Pacino
Brass and Composition Castings and Finishing, done with neatness and dispatch.
$\mathrm{C}^{\text {HURCH AND Steamboat belis, of all stzes }}$ the luest mauner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterus, on havicular attention given to caating Rudder BraAll Jobs promptly attended to.-Prices moderate.

Miners' Foundry

## MACHINE WORKS,

First St., between Howard \& Folsom, san franciscu.
$\mathrm{E}^{\text {VERY DESCRIPTION OF HRON AND RRASS BLACHT- }}$ in thy stitic of Cabitiorin, , wall be turnisbed wath dis-
pateh at the Miers' Foundry and Machine Works, as : Steam Enginer and Boilers, Flour, Suw and Quartz mill machinery, Miuing Pumps, Amalgamators, Retorts, Particular attention will be given to the manufacture of Muchinery in sections, designenf for places of dimeutit
sccess, Varioux mavelels of Quartz Crushers, Amalgamaturs and Water Wheelsmome in operation and on exti-
 small quantities will be afforded ample facilities, free
cost.

All parties desiring accurate and highly finished draw inge and Superivo Mactinery, at moosi reasonable rates

HOWLAND, ANGEL \& KING
San Francisco, February 23 , 1883,

## San Francisco Machine

IRON WORKS !
Northeast conner Fremont and Mission Streeta.
 Steam Engines, High and Low Prensure; Quartz mills, Saw mills, Mining Pumps, Hofsting machinen for
miniug purpueg, Wine Presses, Agricultural implements mining purpuges, Wine Preases, Agricultural implements
etc, etc, and Castings of all deseriptions made to ordor Steam Eugines exchanged and for nale hy REPARING promptly atteaded to.
FOR SALE.

FOUNDLEIES \& MACHINF SHOPS.

## VULCAN IRON WORES COIMP ANY

## P. Tonquet, Manager,

STEAM ENGEVE BULLDERS

BOILER MAKERS,
Iron Founders and General Engineers

## No 137 \& $13 y$ Firat streot, San Francisco

Punsplag, Holstiog, Maing and Quartz-crushing Muchinery.
Sluves and Dles of the harilent iron
Russiu irou Puoched Screens.
Steamboat Machincry : Saw, Flour and Sugur Mille
High and Low Presure Boilers of all Styles
Jonval. ald othor Turbine Water Whecle with lateat improvements.

## W. T. \& Ji GARRATT, City Brass and Bell Founders Cor. First \& Market sto., San Francisco <br> $\mathbf{B}^{\text {abBet metal castings, hire engines, force }}$   CUIT1PING JOINTS of ALL, sIzEs, Manufacturers of "G <br> D. MORRIS, MACHINE SHOP 227 Market, corner of Beale Street. <br> Mabuficturer of <br> WARRANTED FIRE-PROOF SAFES yill Work, of all kjads made to order. All kinds

## LEWIS COFFEY AND RISDON,

 steam buller and sheet troxThe only exolnsively Eoiler Making Establishment on the Pacibe coast Owned snd conducted by Practica oiler Makerg. All orders ior New Work, the repairing quasity.
Old Stand, corner Bush and Market Streets. IS COFFEY

IHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
 M ical Instruments, Scales, woights, etc.; Stee Tamps, Dies and Die Sís sing, Embossingstamy,
Repairing of Machivery promptly attended to ${ }_{\mathrm{n7} .3 \mathrm{~m} \text { ) }}{ }^{\text {No. }}$

## HIRAM WRIGHT, PICK MAKER,

Has eatablished i Manufactury for th
Menere's pecks,
NO 1 H1 BUSH STREET, SAN FRANCISCO,
[Retween Sansome and Battery]]
Wrizar can be had a superior Pick for Bliners use As he manufactures alt his piecs under bls own personal
surpervision, be warrauts them an being made of the best material and by the best workmanship.
Orders attended to and filled promptly and with ris-
pateh.

## WRIGHT'S PICKS.

JOAN WRIGHT, of Sacramento, has establashed bimgelf in San yrancesce, for the manufacture of every
deacription of PICKS, of the hest material, at reducen deacription of Picks, of the best material, at renuch
prices. Picr Eyes of the bent iron furnished in any quan prices. low rates Ordera foom the country promptiy attended to. N. B.-None gunuine unless stamped with
JOHN WRIGBT, 511 Market ktreet, my name. JOHN WRJGBT, 511 Market street,
Opposite Battery, San Francisco.

CALIFORNIA TOOL WORKS !
John Weichhart, All Kinds of Edge Tools, Etc.,

Moulding Irons, Stone Cutterrs ronta


Good Dimidend.-I he Jefferson Quartz Mining Company, at Brown's Valley, twelve miles above Mary'sville, on the Xuba River, (lately known as Snyder \& Frazier.) declaned a dividend on Monday of $\$ 1,000$ per share to five shares, for the previous fortuight's run of their mill. That is fully oqual to Gould \& Curry

1 recently took out, the result of eight day's crushing, 21865.100 ounces of gold, worth abqut $\$ 5,414$, In the same time they exhumed about one hundred tons of payrock which is now ready to crush.

Covering Armor Plates witi GlarbThe whole of the armor plates of the British cupola ship Hoyal Suvereign are to be covered with a vitreons sheathing, which consist of a surface of glass based apon small plates of iron, sufficintly thin to be to a cert.in extent flexible, which are applied to the ship by a new adhesive process, and have been ascerrained to be capable of resisting all ordinary contingencies from pressure or abrasion. The cost is 1s. 7d. per square foot.

Stocinges " to suit the feet" are now sold in London. . They are, like shoes, "rights aud lefts." The inner edge of each is quito straight to the extremi $y$ of the great toe, while the outer is rounded of to the shape of the foot.

Eye, Ear and Throat.

## DR. DE CASTRO,

## Oculist and Aurist,


 sulted upun disembes ur these delicuite orgays, with $a$ view
to to zueir permaneint cure. Diafousb uf bug suanding tho-
roughly cured. The lhictor employe his by the Medical siciety ul Loudon apuruved)
Self-adjusting Artificial Tympanum,
For the reitef of deafieces, atteoded by losk or injury of
tho membrana tympani, and fur the cure of dijuhyrgo Prom the eur-thy Jnvention of De Custro, M1. D, suthor
of " lleafiess l'ractically Illustrated as to its Nature and The self adjusting Artifcial Tymonam wre fret int suced to the notice of the praression at the mecting of the Merdical Society of Luldnu, on the 20th of November, 1863. An anmated discussion ensued on the readjag of the paper, and several members of the soclety bore testi-
mony to the guccess of the remedy and tbe importance of the origiual discovery. Mr. Kaker Brown (member) bore testimony to the Self-
Adjusing Arcificial 'yymunum, as he had nbserved the Adjustiog Arlificial Tympanum, as he had nbserved the
immense bentit a young lady triead of his had received imbenase bentit a young lady triend of his had received
trumit. She was iu fuct, quite deaf, and in a most miscrable siale ; the effect of the ty mpanum was instantane-
ous-quite ike a miraclo. Five more teatimooials frum Bermbers uf the Medical College, New York, and the principal citics of Earope. Operating Rooms, UNION BLOCK, Corner of M
Eearuy streets. Eutrance ou Market street.

NG Mr, EditormHaving been afficted severe cold, and for the last month sulleriug from the mont excrutiating pains in ray ear, I was nbliged to come down to Sau Frabcisco to seek relief. After a physician's
recomendation to wait on Dr. De Castro on the cover recomendation to wait on Dr. De Castro, on the conner of
Kearny and Market streets, and underwent one operation, Kearny and Market streets, and underwent onc operation,
aud it is with the utmost pleasure I can say my hearing was suddenly aud withunt paiu entircly restored. I deem it my duty to make this krowu to the bublic, aud to recommend Dr. De Castro's skill as an aurist. San Francisco, July 30th, 1868.

> [From the Daily Alta.]

ED'rs Datiy Alta san Francisco, June 30th., 1863.
Permit me through jour widely circulated journal, to say, thut my daughter Mary Ellen, has beop afticted with deafnera since she wras thirteen months old, and that she
has been a member of the neal and Dumb Iustltute siace it was organized. On tasing her to Dr. De Castro, on the corner of Kearney and Jarket Surcets, and undergoing under his direction, two ouerations, she hae heard sounds
very distanctly; and is now, 1 ambeppy testate in a fair very distinctly; and is now, I ambapy testate in a fair
way to get permunent relief. The result, thus far, is satisfuctory ; and I heem this notice due to Dr. De Castro for his skill ; and would recommend all parties similarly aflicted to give hima trial. My inughter has at differeat times been under the care of the most skiful physicians
and aurists in Califurnia, but up to the period of visiting and aurists in Calnived no CHAS JOHN P. WRIGHT,
812 Green Stree

[^10]MINING NOTICES.


 ing Cumpauy, and payable immednately, 10 U. S. Gold
Coin, to the Secretary, at the office of the Compauy, or to J. M. Pike, superintendint, wt Cuper opalis.

By order of the Board of trustea | $\substack{\text { By order } \\ \text { sep14 }}$ |
| :---: |

$\qquad$
Winona Gold and Silver Mining Com-

 for the election of bre Truvtees for the ensuing year, on
the 19 h day of September, 1868 , at 73 P. As. By order
of the Board of Trustek.
M. G. Whime, Sec'y. of the Boa
aug 24
Red Jacket Mining Company.-At a meeting of the inard of Trustees of the abrye complay
held July 7,1863 . the first ansessmint of Five Cents per
share ou the cupital stock was levied, pay ablo immedishare on the cupital stock was levied, pas able immpedi-
ately in United States gold coit, to tbo Secretary, oflice
420 Moutgoouery street, Room No. ately in Uuited States gold coit, to the Secretary, oflice
420 Moutgomery strect, Room No. 2 By order of the
Buard.
J. W CRUSluEY, Secretary.

## auge4

Office Table Mountain Copper Mining Company. - At at meeting of the Board of truxteen of this Cents per share was levied upon the capital stock of sai
Cumpany, payble immedintely in United States gold Company, payble immedintely in United states gold
cuin the Secretary, at the outice of the Conumay, No.
628 Montgomery strect, or to J. 3. Pike, Surpermen6:28 Montgomery strcet, or to J. M. Pike, Surperinten
dunt, at Copperopulls. M. G. ELaNORE, Sccretary.

Office of the Niagara Consolidated Gold andeby giveu that the Board of Trustees bave this luy
levied an assessment of Twenty-five Ceuts per share upon ench and overy ahare of the capital stock of the said Corupany, payable iu U. S. Gold coin immeduately to the
Socrctary, nt the office of the Compnny, No. 528 Mont Socretary, at the ublice of the Compnay, No.
gomery street, or to the Contractor at the Canon San Francisco, July 50. 186. G.

## AGENTS WANTED.

We want a good Agent in every city, town and settle-
ent, on thia Const. Applicants will gend their names ment, on this Coast. Applicants will kend their names and thoir names added to our pubHisber "List of Agents."
EWER \& SMITTH.


## TO QUARTZ MINERS.

A chinery are inviled to call at in mining Ma Achinery are inviled to callat Donahue's Foumdry sud ably superior to suythiug now known for amargamating
Silver and Gold. It works 1000 pounds at a time, aud Silver and Gold. It Works 1000 prunds at a time, aud of the revolving ceutro and passes under it, butween the grinuling sur faces, to the circumference; from whence it passes aga over the muller to the ceutre, through the holes and be-
tween the grinding surface to the circumferenco us before. Thus a constant circulatinn of the pulp is kept up, fore. Thus a constant circulatinn of the palp is kept up,
briuging the particles of ore again and again nuder the
muller, and reduciag the whoie rass to an inoalpable muller, and reducing the whoie rasss to an impalpable No quicksilver lies between the surfaces to be ground,
but at the circumferenceand centre of the pau where the metal mut pass through it as the pulp circulates. A patent was granted for this Amalgamater in he-
cember last, atd all persons are again wirned aganst cember last, utd all persons are Rgain wirned aganst
parehasing machines made at the Minors' Fonndry callied parebasing machines made at the Minors' Fonndry calied on my pateot, und a suit is uow pending In the U. S. Curmators cau be seen ruuning at Dunalue's Foundry, where all can judge of their operation sud the very superior atyle in which they are being manufactured.
Bep21
THOMAS VARNEY.

MINING CARDS.
alEXANDER STOTT,
MINING SECRETARY 512 Sunsome Street, Sun Francisco.

Secretary of -
Hores Suof, Silver and Copper, Monte Diablo: Gexprar Jackoox, fold aud silver, Devil's crat Fiesro, Goll ana Siiver, Alpine District. Gaio
T. C. Sanborn \& Co, STOCK BROKERS,
No. 630, Montgomery Street.
$\mathrm{O}^{\text {phir silver mintng stocir, }}$
gouln \& curry mining stock, chollar mining stock, caljforna steam natigation cós sfock, BOUGHT \& SOLD.

## MILLER \& COLEY,

Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

## Istute ailes Room, san Pruncier co.

ale ieinds of stock and minine Business attended to with Promptnes aug17

## L. F. LELAND, STOCK BROKER, No. 631 clay strect, <br> Offco Hours, 10 to 11, A. M.; 2/6 to $3 / \frac{1}{2}$, P. Mr.

$\qquad$PEASE, BOWLEY \& CO., Real Estate, Stook and Exchange BROKERS, an Monggomery arrect, san, Franelicoco.
Legal Treder Notrs and Mining Stocks, BOUGHT \& SOLD.

## AGEINOY <br> For the Purchase and Sale of <br> MEXICAN MININGSTOCKS <br> At No. 411 Clay Strect, San Francisco <br> OFICE OF THE PENA AND LA MARRONENA SLL- ver Maing Companics, Sua Antonio Distriet, Lower All persous are invited to call and examine ores from <br> the above mines. <br> Wm. FAUl_KNER.

## New Bedford Copper Company, <br>   <br> Sheathing Cóoperf <br> Brazier's Copper; <br> Copper Bolits; <br> Yellow Seleaphino Merali,

Copper and Composition Natls;
Which they offor to the Trade at the lowest marke
rate, and on the most favorable terms. je-29 108 Front Steel, SAn Francisco,

## R. W. FISHBOURNE,

## PRACIICAL LITHOGRAPHER,

ENGRAVER AND PRINTER,
$\mathbf{N}^{0 .} 529$ Clit Sr, corner of lemperorff,

 dispatch. N. B. All orders in Cray
attendeu to.
MIN IN G
N. B. Mining Stock Certifcates oxected with promt

MYERS \& DAGGETT'S
Mining and Stock Exchange,
Mining Stocks of All Kinds Bought \& Sold.

${ }^{*} *^{*}$ Abstracts of Titles Furnished, Etc.

BUSINESS CARDS.

| Napoleon Copper Mining Company, Capital stoer. $\$ 1, \mathbf{6 2 0}, 000$. 2,700 Sharese--\$600 Per Share. |
| :---: |
| ngth of Lead 2,700 Fect ; Location of Mine, G District, Calaveras county; Incorporated October 3, 1862. |
|  |
| Secretary ..................................... C. ALIIF. |
|  |
|  |  |
|  |
|  |
| R, G. Rikolv ${ }^{\text {a }}$ of Gruver \& Baher S. M. Co, |
|  |
|  |  |
|  |
| W. A. WOOINAED, of Alta Calitomia. |
| W. i. JUNCAN. Secretary Collifornia Pioneera. |
| 20 M |
|  |  |

## THE EUROPEAN ORE REFINING COMPANY

Quartz Mill and Furnaces, Bryant Street,
Crossing Third, San Francisco. RECEIVE ALL KINDS OF

## ORES AND MINERALS

meat by the

## Lates curopean methods,

## CAREFUL ANALYSIS,

At their works, to be the must Efrectunl iu obtaining re cious Metals they may contain, into marketable Ingota. re3) The South Park, and Folsom and Kearnystruet Cis pass Bryant street.

## The Pacific Mineral Compnay

M
Copper, Sinver, Tin, Nictel. Cobalm, Zino, Lead, and Sulphurets contaning Gold. Dne aecosunt, taken of all valuible metals combined
with Silver and Copper Ores, and advances mado therc
${ }^{\text {Tor. }}$ Prarties owning undeveloped mines and dosiriigg capital to prospect the same will recoive assistance, if, upou ex-
amination, such luads are deemed sulliciently valuable ammation, such leads are

OFFICE, No. 1, ODD FELLOWS' HALIL,

## MARTIN \& Co.,

OFFICE--284 Montgomery Street, Up Stairs,

## will contract for the

Purchase of Copper Ores, Assaying 8 per cent and upwards of Copper to the Ton. We will make ADVANCES upon Ores of COPPER, TNN | and Nickelt |
| :--- |
| Sunche will | sigumenta if if desired by the counfifnors.

Henry Martin, J. f. Greeman,
San Francisco Post omes, Bax 1225 .
je 1.
San Antonio Gold and Silver Mines, lower california,
FORWARDING \& IIINING AGENCY. SAMUEL SMITH,
OFFICE--North West Corner of Front and Clay
Streets, San Francisco.
INNG MACHINERY AND MERCHANDISE FOR warded, Mining Claims secured, harough the
cot Agentat san $A$ atoun, and information fur-
dregarding any claim., in that Territory, on Commission.

## H. C. KIBBE, minnivg secretary,

Commissioner for Nevada Territory 542 Sacramento st., cor. Montgomery (armory hall.)

BUSINESS CARDS.
SOUTH PARK
Quartz Mill and Reduction Works GOLD AND SILVER ORES WORKED AT REASON
 je13

## W. W. HANSCOM,

Steam and Mechanical Engineer,
Designs furished, and Drawings made Engines, Mills, Water Wheels, Mining Ma chinery, etc., the.,

## TO MINING COMIPANIES ! <br> Offices To Let SUIIES OR SINGLE ROOMS, in Government Block an-24

## El Paso District, Los Angeles Conntr,

## MINING AGENCY

C. W. TAPPAN, GENERAL AGENT

## Head Quarters," Mesquit Springs,

Will attend to any busings connaected with these mine
Tor $a$ ressinnaule cousideration.






1 Passo,
ausi1
MINING \& SCIENTIFIC PRESS.
THE ONLYMINING, MECHANICAL ANI SCLENTIFIC PAPER ON THES CONTINENT
THIRD FEAR: VOLUME FI.-NEW SERIDS A new volume of this extensively circulated papk number shall be replete with information concernh Miuing, Scientific, Mechavical nud Judustrial pursuit
 Thins, etc., prepared expressly for its columns.
Tin paper is Ievoted to the above purposes, togethe
with the interests of Sieience, Arts, Apriculture and Com
 prictor to spare no pains or expense in making it equi in intorest and valuable information to any papor $y$

## Will find it of great Mining Interest I

Will find it of grcat ralue, as it will contain all th
hows anpertaioine to Mining the trices col sale of nows anpertaining to Mining, the nrices aud sales of M
ning Stocks, uew inventions of Machinery adiapted to the nug stocks, wew inventions of Machinery aliapted to th
purpose, nno of everything gencrally that may be of sol

The Inventor !
Will fad it an excellent medtum for the purpose, bringing his invention into notice, of naccertaililing of progress of inveution in this and other conntries wu
also of recelviug any information that may be nerot alko of recelving any ioformation that may hen ne
sary in obtaining bia patent, the proprictors liaving faf sary in obtaining his patent, the proprictors
great cxperience as Pantent Agenth, together will fuci
itine itins at Wahhington that enable them in ol trais Paten
with diepntch.

The Mechanic and Manufacturer! Will be greatly benefitted by its peruanal, as is ce,
umaus will Irom time to time contan origimal cngray umus will irom time to time contan original chigra,
ings of new mnchines add inventions, tagetlier with ings of new machines and inventions, tage ther with
Inrge amount of reading matter apportaining theret
We sre constantly receiving the best scientific joi nals from ail quarters, from whine we whinlif colltini

To Chemists, Architects and Millwrights Thic jourual will be invaluable. All Dew diseoveri In Chemistry will be given, nud a arge amonnt or init
mation of Ereat service to drchitecte and sillwrik mation ot great service to Architects the Farmors and Pla
will be foull in nur columus ters will oot be neplected, engravings will be given
agricultural ioplements, and the farmiag interest ge agricultural iopplements, and th
erally will bo amply discused.

## mail subscribers. Forma.

Club Rates.
Five Cnies for Six Monthe, $\$ 8$.
Ten Copies for Six Mouthe, $\$ 16$.
Ten Copies for Six Mouths, \$16.
Ten Copies for Twelve Months, $\mathbf{3 0}$.
 gratis to any part of the country.
EWTER \& SMITH, Pnblishers,

Room 57, Goperament Inorse, Corner of Washing Room for Goneroment hrance,


## REMOVAL.

The Office of the Miniva and Scientific Press, has been removed to Ruoms Nos. 5 li and 57 Government House, corner of Washington and Sansome Streets. We have been induced to make this change of location, not only with the view of securing $m$ re room and better accommodations for ourselves, but chiefly to better accommodate persuns having business with the office. Our location is now central, easy of access, and in the direct way of the chief travel of the city to and from the Post Olfice.

## A. Mammoth Project for bupplying Virgina City with Pure

The problem of how best and soonest to supply Virginia city with pore water, is exciting much interest there at this time. The Enterprise gives a lengthy report upon the subject from Engincer Ostrom made to the company, which has undertaken the enterprise, from which we gather the follow ing facts:
It is proposed to collect the water from several small mouutain streams to the northward and westward of Washoe Lake and bring the water so collected into.Virginia. To do this, it is necessasy to convey the same across a valley a distance of six miles, the lowest depression of which is 1200 feet below the required level at which the valley must be crossed to reach Virginia City. To do this one of two methods must be adopted-either to purnp this water up to an elevar fion of 1,200 feet by machinery, or to carry it across the depression in iron pipes. Ordinary cast iron pipes will not stand The pressure; hence boiler iron must be used. The pressure at the great-st depression will be 651 fos to the square inch, which is equivalent to a pressure in a 42 -inch boiler of $23 \overline{5}$ ths. The pipe at this point will have to bo balf an inch thick. But as this pressure will only extend for a quarter of a mile, it is estimated, that an average of one quarter of an inch throughout the entire distance will be ample. This wil make the amount of weight of iron to be used $-32,000$ feet of 15 -inch pipe. half an ingh thick-within a fraction of 630 Hons; which at 15 cents per th will give $\$ 191,700$ as its cost. The entire cost of the work together with service pipe laid hrough the city is estimated at $\$ 497,000$. The supply furnished will be $3,000,000$ gallons per each 24 hours.
The Acid Works.-The Carson Independent announces the starting of the Acid Works in that locality as follows:

The acid works are completed, and have commenced work Everything. works to the satisfaction of the proprietors, and in a few days they will be able to supply the Territory with sulpharie aeid at much less cost than the imported article. Our mill men should encourage all euterprises of the kind, as they go to make up the wealth of the 'Territory.

It is the intention of the proprietors if they meet with proper eucouragement, to enlarge the works so as to manufacture all the chemicles now used in the process of reduciug the precious metals.

## THE GROSCH COMPANY.

This mammoth incubus will not go dowo at the bidding. but still threatens to prove a formidable cluad on the title of
some of the leading mines on the Comstock lode. It would seen as though the lawyers of Califurnia were the busiest and most suhtle of all, created bumans. It is almost if not aposibinty to so perfect a tilie or enact a law that a destined, at an early day to become an important mining loCahifurna lawyer will not reud in shreds by the force of his cality. The specimens which we have received, all present logic or the skill of his cunning. It may be that they are similar characteristics, and are quite unlike any'which oceur one of the necessary evils of the laud, and that we cannot do at any point to the Northward. The chief value of these without them. If we could lave it our own way, however, ores, we presume, consists in silver. Gold, we believe, ocwe would try it for a while, anyhow, and if the experiment proved a failure would endeavor to put up with the infliction with the best grace possible. It is our honest. opinion. that a coumission might be devised, for every mining distrirct, where nine-tenths of all mining disputes night be fairly and equitably settled without the intervention of any other lawyer then the commissioner upon the Bench, who, of course should be a man of probity and standing, especially selected for his wisdom and prudence, and appointed-not electedto hold office during good behavior.

But we have almost lost sight of the item on which we started, the Grosch Company, which has just issued a pamphlet of tweaty pages, setting forth the ground of their clain to three-fourths of $\mathbf{3 , 7 5 0}$ feet on the Comstock ledge. This claim will afford most excellent pickings for the coterie of lawyers who, no doubt were the getters up of the scheme for the simple purpose of levying black mail upon some of our wealthy companies. The companies, however, seem to regard it, apparently with very. little cancern, and declar themselves in possession of evidence that cannot fail to over throw it entirely. The claim covers the following subdivis ions of the Comstock ledge:
Gould \& Curry ... . . . . . . . ... W. . . . . . . . . . . . . . . . . . . 1200 feet.
Best \& Belcher.
Dick Sides. .500
White \& Murphy 210
Kenney, .60
Central No. 2 150
California. 300
Central No. 300
150
South Ophir. 150
Mexican. 200
100
North Ophir 655
Together with the net profits arising therefrom since the coupation by others.
Forrest Home- Considerable interest is being taken in copper mines at and near Forrest Home, Amador county The "Exchiange Compiny" has' recently been incorporated, and àre now prosecuting the work upon their vein with ener gy. At a depth of thirty feet the vein presents most excel. lent indications, showing a five foot lode interstratified with three distinct viens of sulphar ts, which present unmistakable indications of soon concentrating in a heavy lode. The secretary of this company, Mr. N. King, has left a fine speci men of ore at this oftice, taken from the mine, and weighing some 50 pounds. They have a large quantity of ore already on the surface, and are about preparing the same for shipment. We hope soon to report thes among the ore-shipping mines of that district. The Exchange is located ahout two and a half miles southerly from the Oriental and Cosumne mines.
signature of "C. W. T." were written. This is evidently

## BPECIMENE FROM EL PASO.

We neglected in our last issue, to acknowledge the reception of a box of specimens from El Paso, the new mining district on the road from Los Angeles to Slate Range, the locali. $y$ from whence the letters recently pullished over the similar characteristics, and are quite unlike any which decur curs to some extent, and nearly every specimen in the collection before us presents strong indications of copper. Among the companios represented, we notice the Eureks, Garibaldi, Comet, Tucker, Gov. Downey, Laurel, Gau, Milliken, McClellan, Morning Star, Ben. Lohmond, Manzanillo, Narboe No. Newport, Molino del Rey, Boston, Orizaba, and Maine.
Persons interested or curious in the mines of this region re invited to call and examine these specimens.

A Simple Macuine for Making Ice.-All Paris has recently been rejoicing greatly over a recent discovery for manufacturing ice in a clieap and simple manner, so cheap and simple as to place the entire process within the means of every housekeeper. The machine is described as follows :
"A cylinder of metal-tin will answer-with a movable cover at one end, to be kept tightly in its place by a screw when shut; with two openings' one at each end, to receive throught two funnels the materials used; and a discharge cock at one end, to discharge the contents when the cylinder is to be emptied, is all the apparatus required. This cylinder, when properly charged, is placed on a pair of rockers, so that a see-saw motion may be obtuined. To convert five hundred French grammes of water into ice (each gramme being neffrly seventeen grains avoirdupoise) it is necessary only to place in this cylinder or well twelve hundred grammes of sulphate of soda and eight hundred prammes of hydrochloride or muriatic acid. Into this preparation or bath, says the inventor, place a form or vessel containing the water to be irozen, a bottle of champagne to he frapped, or any other material required to be frozen. Close the cover, screw it fast, and then for seven or eight minutes give the cylinder or well a see-saw motion on its cradle, and you obtain the desired result. A solid block of ice of five hundred grammes may be produced by this operation."
"All Paris, has been running te see the machine at the Rue de l' Arbe, Sec. No. 60, where its effects are pnblickly exhibited. These machings are rapidly sold at from fifty franks to one huudred and twenty, according to the size. A late number of the pictorial paper $L$ ' Illinstration gives a drawiug and a description sufficiently intelligible to enable any of our hretal workers to manufacture them. If we may believe the half of what is said; our dependence for cold drinks will no longer, be upon the icemen, but on the chemists."
Warhoe to be Repregented at the World's Fair-Almarin B, Paul, Bisq., is, collecting a valuable set of specimens, to represent the mineral wealth of Nevada Territory, in the approaching World's Fair at Paris. Mr. Paul has . probably contrihuted more than any ather individual toward the development of that region. He was one of the earliest pioneers in Washoe and has devoted his entire energies, both pecumarily and mentally, towards its develupment. He is deserving of much oredit for his efforts in that direction.

## THE HUNBOLDT MINES

For some reason or other the Humboldt mines appear to be in a a measure lost sight of by newspaper correspondents of late. The Humboldt Register, however, assures us that the mines have xeither "dried up" nor are they deserted. But little prospecting, according to that paper, seems to be going on at the present time, but all the old companies are "plodding quietly along, getting in their assessments as quietly a possible, and puttivg in good solid blows and blasts. This," adds the Régister, "is all right. -t will bring the country out in proper light ultimately, though all looks tedious at at present."

## The Register furher says:

We did hope, that capitalists who put in so liberally for feet would do something in the way of providing means of separating our metals, and thus show the world what these mountains of vire are worth. It would have helped the miners, and would have been a much shorter road for capitalists, to the immense fortunes destined to be worked out of the silver lodes. It would be the shorter road now. Enough is shown to attest beyond cavil the unprecedented richness of the Humboldt mines. But the air line has taken elsewhere the capital that should ere this have built mills for is. Wind work has told for other localities, and we nust wouk patiently on with the few mills we have-trusting to quiel in dustry to es: ablish for us what speculative gas claims all for other sections.
The Register gives full reports of the progress of operations in the several districts, from which it would appear that the miners themselves are not at all discouraged at the present cloud which hangs over that region. We condense :-

Star District.-No accounts save that all the companies of that district axe pushing ahead with their work.
Buena Vista District.-Companies all at work. Cideinnatus, the largest tunnel in that region in 300 feet. Sargent pushing on their tuanel night and day. Buckeye, ditto ; in 110 feet. Anderson in 70 feet, with a well defined and good looking ledge. National \& Downey, Cedar Hill, going ahead.

The "Monitowoc," have pushed their tunnel to the distance of 100 feet. This is one of the most promising ledges in the district. We have assays of rock from this ledge before us, as we write, made in this city, which read as follows:

Average assay of 14 sacks of Monitowoc, $\$ 52535$ to the $t$ of of $2,000 \mathrm{Bbs}$.

Another informs us that $3,300 \mathrm{fbs}$. of rock from this mine woked bv Bradshaw \& Co. of this city yielded at the rate of $\$ 525$ to the ton.
Another assay yielded $\$ 1,41789$ in silver; and still anqther $\$ 32852$ in silver and $\$ 3311$ in gold.

Assays in Unionville have been made as high as $\$ 3,000$.
With such indications we should suppose the company might go on with the greatest confidence in developing their mine.

Sacramento District.-A correspondent of the Register pronounces this one of the richest districts in the region.
The Cosumnes are driving in 2 very extensive tumnel, working night and day. The Howard, Iowa, Mary Stephens, Tehama, Sebastopol and many otber promising claims are included in this district. The correspondent alluded to says:
"The best indications of silver ledges (the black and brown traces) are more fully shown here than in any other district yet discovered. It is remarkable that so few miners or prospectors are neither geologists or mineralogists, but merely visionists; they seem to run astray after the green and blue sulphurets or stains for rich mineral indications-a most fatal error."
Sierra District.-The Sierta District is also thriving. The Oroesus is hauling some very rich rock to the Sheba mill. The result will soon be known. The Natches is still pushing on their tunnel: Empire Tunnel Company is taking out rock, and having it worked at Fall's mill. The Eclipse Tunnel is being pushed on vigorously under Charley Barber's supervision. Tne Neptune Series, Gideon Band Series, Monroe Series and numerous other Oompanies are actively pushing forward the work of development.

Trinity Districte-This is comparalively a ney districtinhospitable, sandy, salty, sagy, full of alkali and good in nothing unless it be mines; in this particular the Trinity follis think they have "gat it." The Evening Star Company are taking out rock, and sacking it to send to Virginia City to be worked-considered rich in both gold and silver The St. Charles Co., Keystone, Tezas, Pennsylvania, etc., are all promising ledges, and located in this district.

## ESMERALDA.

Probably no mining camp east or west of the Sierra Nevada hâs suffered more, proportionally, from-law suits and the general dilitory proceedings of the Courts, than Aurora city. The calender of her District Court has been for some time overflowing with complicated and confused litigation, the result, according to the Times, of judical inertia. The recent boundary survey baving proved that the mines; or at least four-fifths of them are outside of the limits of the State of California and her courts, bas apparently dissolved numerous injuction suites, and, by a sort of tacit common consent, the several companies have agaio resumed work upon their claims. The Pond company have put four shifts of hands to work, Real del Monte and other companies have olso gone to work again, and the camp is assuming quite an unwonted degree of activity. The prages paid to the laborer will enable him to pay bis obligations and the boarding man or merchant will receive his demands in gold, which shows the beneficial effect, active employed labor has upon the whole community, and no branch of trade or business can fail to be effected beneficially thereby.
'I he Times is very properly jubilant over the new condition of things and asserts that the ledges of that district only need to be worked to realize the most sanguine expections. It claims that the Del Monte company, to-day, works as rich a ledge and as lasting as ever poured bullion into the lap of enterpise from any quarter-Virginia, Gold Hill, or any place else. It furthermore says:-
"We have an abundance of rock which pays all the way from fifty to two hundred dollars per ton and upwards; and will they tell us that our mines are of no value? If stecks are down, what of it? Some capitalists have faith sufficient to erect mills of great value among us, and they believe they will be remunerated. Mr. Fogus has just completed his mill. The Real del Monte will before long, have their mill done. I'he Antelope Company is putting up a large mill. To those who would condemn us, we would say, suspend your judgement for a while-let our new mills get under way. Let them add their yield to that of those now running, and after a fair test, if our mines will not pay, give your verdict against them. Till then you should not say ought against us."

## the mines.

The Times notices four good sized "bricks," valued at $\$ 18,363$, the yield of 164 tons of rock from the Aarora ledge, of the Real del Monte Consolidation- $\$ 112$ to the ton, crushed, we presume, at Fogus' mill، That comes up to Comstock, and with sundry yields from other ledges, which we give below, affords pretty good evidence that Esmeralda is very far from being a failure.
The Real del Monte mill, one of the finest and most complete on the Western Slope, will commence ranning about the middle of November, after which time the Company will be able to crush their own rock. They now have a contract for the delivery of 10,000 tons of rock at their mill at the rate of 40 tons per day. It is estimated that the rock last crushed is a fair average of what is to come. A pretty good prospect for one Company. We look for-a rapid increase of Bullion Shipments from this Camp from this time out.
Mr. Fogus has completed his mill; it went into operation on the 9 th inst. The mill has 12 stamps, 8 . Wheeler pans, and 3 separators. The machinery is well arranged. Mr. F. is to crush for the Real del Monte Consolidation.
The Crocket has now fajrly tested their ledge and have proved by practical demonstration that it is valuable. They recently cleaned up $\$ 8,000$ as the result of one week's run After paying all expenses, they were enabled to declare a dividend of $\$ 5$ to the foot. They have a shaft down 180 ft . and are working night and day.
The Seymour Company recently cleaned up $\$ 1,400$ from 10 tons of rock. This Company has also been enabled to declare a dividend. Their shaft is down to the depth of 60 feet. The claim is pronounced valuable.
The Clan Alpine is being worked with two sets of hands. The Company intend to take out at least fifty tons of rock for their next crushing. The rock is thought by the Comprony to be improving. . The deeper they sink the richer it is. That is a fine characteristic.
The Maggy Green Company is situated on Silver Hill, near the Utah. It is reported the Company recently struck very rich rock. The ore resembles the Utah, and is said to

The Clan Alpine has receutly had a crusbing with th most satisfactory results. We expect to hear of anothe crushing soon. Thein ledge improves, as theg go down.
The Poeaset are about having some of their rock crushed They take it to the mill in sacks. The Lady Kate are fino ing good looking rock. It is much decomposed and show well in silver as well als gold.
The Western Summit, we believe, are not doing mucl at the present time. This is an incorporated Company, will its busmess office in this city. The Company bas a cunflict ing clain with Ural, which the Times explains as follows:-
"The Western Summit claim twelve huudred feet; thit Ural four hundred feet, supposed to be the same dode. Now; if the Ural should succeed in maintaining the claym to the four hundred feet, there will yet be left to the Western Sum mit eight hundred feet of the best and richest, or rather ont of the best and richest claims in the : District. We als learn that both mines aro well opened, and can be worke expeditiously.
The Siam is lecated about midway between the base anc summit of "Middle Hill. The Company have incorporater and located their office in this city, The ledge is abou three feet wide, and they are sanguine of opening a rich mine 'The "Kinderhook," another very fine ledge is located il the same vicinity. A shaft is now being sunk on the ledge with very flattering' prospects.
The Magdalena, under the superintendence of Mr. Rober Howland, are very nearly up to their ledge.

The accounts from the Bodie District are very encourag ing; extravagant anticipations are indulged in, the proof 0 which, it is claimed is a mere matter of time.
Tunneling operations, which constitute an important fea ture of this locality are progressing most satisfactorily.

## [From an Occasioual Corrcapondent.]

Silver City, Oak Run District, Shasta County, Sept: 4, 1863.
This new land of silver and gold was unknown in th mineral world until last spring. At that time a few lodes weri discovered on Pitt River ; this led to more exter.sive prospect ing. Ledges were traced for many miles ; a number of min ing districts were formed and minerals were found in gree abundance. But at that time little was known of their val uc. The next step, of courso, was to ascertain, by nssays. something of the character and value of the minerals. I was found that lead exceeded in quantity but that silver es ceeded in value. The highest assay yet known is from th Keyoma ledge ; this. has assayed over $\$ 7,000$ per ton in gold and silver; other ledges have assayed from $\$ 50$ to $\$ 21$ : per ton in silver. Among these may be named the Silve Creek, General Jackbon, North Star, Coon Creek, Suga Pine, Buckhorn and Union, besides many others of estab lished richness. The mines now present a lively appearance Many visitors are now there prospecting, or investing smal amounts, thereby securing to themselves a portion of tha wealth which the labors of others have opened to the world Cabins are being built, which shows that some are intending to winter in the mines. On most of the lodes above mention ed, work is now going on, shafts or tumels commenced an rock is being taken out. Some companies on the best lodes are intending soon to forward quantities of rock to Sar Francisco, calculating on large profits, even after payiny freight and the high price for working rock in that city. Wit] regard to the geograplay of the country, it is very hearil? timbered with pine, fir, oak and cedar, all commingling is dense forest, save where it is too precipitous and rocky fo. timber to grow. Coal of fine quality exists in great abun! dance. Geologically it is like all other mineral countris : the predominating rocks are primary limestone, greywacke slate of yarious kinds, granite, quartz \&cc., and all is uphear. ed from its original horizontal position and stands at a di] of thirty to forty degrees. : The mineral veins or ledges an interstratified with the rocks, are generally well defined ant from four inshes to eighty feet in thichness: The minera veins run N. W. and S. E., and across these, at right an gles with them, are uumerous creeks, some of which havi worn doan 50 to 80 feet apon the different ledges, thus hetv ing done the work of opening the claims, leaving the "pa rock" exposed for immediate work.
C. P .

A Rich Mree.-The Allison Ranch Mining Company, fo a crushing of 24 bours, one day, recently, took out 500 ounce: of gold.

# ASSAYS! romptness and Acouracy Secured Bx the L'se uf thr: Must Inghuted Metuode op <br> A NALYSISI <br> idvanlageous Terms for Prospector's Clabs and Mining Companics. <br> <br> J. H CRURCBILL, M. A, 

 <br> <br> J. H CRURCBILL, M. A,}

BIEHN, HEMME \& 00.
ASSAYERS. Montgomery street, our. of Oalifornia

Assays Made of ores, Minerals and Metals,





XCELSIOR IRON WORKS,
213 Sansome strect,
Betweu Juchsoun and Fuciac, San Francisco,
GALLAGHER \& KENNEY, Hanufncturern of all kiexda of
nchitectural and Ornamental Iron Work,


bing doue with promptuess, nad at
Ordera trom the country pricempit

## WILITAM BRODIE \& CO.

## CALIFORNIA FOUNDRY,

## Light and Heavy Castings,



## Giffards Injectors,

OR SUTPLYING BUlLERS WITH FEEED WATER
without Pumps No Mill or Manmg Cimpany whit be wothont oue of these valualle instimpente end for a Circutar. 222 Cor. Pioe and Front sts,, San Ernincisco.

## PATRONIZE

 home manuracturies!!!James Longshore, Trunk and Valise Manufacturer,

 ug $x$

## New Style of Ladies' Buckle!

W. BOHM,

Inventor and Patenter.
4RE SUBECRTBEPR Ha VING OBTANED LeTTERS PAT ent from Washiakthu for ant improvement in tho
 or in use. hinu having been carefully examinecl at tho
 -nt, and Lettors Patcont havo been grantod for 17 years. Uscrulness, Strength and Appearance. Le Public is respectrally invited to call and examin

621 Washing toin Sitreet, Sun Francisc
607 Montgomery Siseept, Sun Francisc, ry Sireent, Sin Francisco.
FLBERRG
\& CONRAD, 118 I Stret, Sacramento.
Agonts for the Patentec.


## APARTMENTS.



## THEE

BRYAN BATTERY



 years, liar been sot dowu as a tallure. The Urdluary

## ALONE STANDING THE TEST.

This, whith ithe Improvements whict Exprrienco han sughext.ud, if now rcgarded, by common consout, as the
only rolinblo

## METIOD OF CRUSTING ORF.

Ture butar batmory, na now conatrueted, la bolifved the cumbur all the improvements whith tive experierco
of the past has afforded. Tley havo been

## EXOLUSIFELY ADOPTED

hy many of the mant prominent Mining Companien in the country, nuri have been, fur the thrre pant yrars, nub-
froted to the mont sevcro of all testa-lhnt of coustant use-and in overy case have beon prouounced

## Effective, Subetantial and Reliable.

Thay are now extonsively aned thronghont the
 equalled in ing plece of miniug machinery.
These Mille nro constructed almast entirely of Iron,
 and dryn'xs or atmaphtere
tied. Tlicy aro udated to
BOTH WET AND DRY CRUSHING,
and aro warranted to reduce, with the same weight of
Stampa, 25 per cent, more rock than any other mill ie ure. Facl, Rattery, is complete in itself, and forms a perfret mill-while ayy number of them can bo added
at a subseqent time-thus preserving the symotry and ut a subsencont time-th
uniformity of the Mill
As an oridence of the increaring favor with which
 thatir works in 1800 , nurl havo beell naldiung a number of
Bitturiea, ench subscquent year, uutil they now have Ralt ruries, each subscquent year, uutil then
Nivoteon, runoing Seventy-aix Stamph,
They are porfoctly fitten and aet upat our Works, bo-
ore shipping, cacly ore shinning, cacbupece ueing marked and numbercd
so that they can be put up nad set at work in ten hourg after ariving on the ground. They are made of two al-
zean, four nad fve Stample each. The Four Stamp
 anat ta seetions, when desired, so that the milts can be packed over any mountala road.
We annex the names of 9 fow well known Companies
whit have adoptod them-running from finu to seventywhid have adoptod them-runuming from fur to seventy-
fivo stamps each-mo whom reference is made :

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co, Esmeralda, Crown Point Do., Gold Hill, Potosi Mining Oo., Virginia City, Tajo Mining Co. ${ }^{\text {© }}$ Mexico, Sheba Mining Co., Hamboltd. Lotta Mills Co., Coso. American \& Mexican Co., Mexico, San Carlos Mining Con,, Owen's River, Enion Quartz Co., Aurora, Triunfo Mining Co., Mexico, Napa Quartz Co., Aurora, Petaluraa Quartz Co., Gold Hill, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F.A. Benjamin \& Co.. Mexico, O.J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmernida, Smith \& Clouser, S. F. Reduction Works. Amagoza Mining Co., San Bernardino,

MANUFAOTURED ONLY BY GODDARD \& CO., At the Pacific Iron Works. san francisco.
os 125 to 136 First street, and 126 to 144

## GUN MAKEIRS,

 DELIERS IN GUN MATERIALS, 733 Washingeon atrect, San Franctaco [Uuo buor abovo Kemeney stroct.]Reparligg done in a workmanlike manner at the abor


## WANTED,

Goid duartz suitable For CUTIING JEWELRY,
by fruntikr a. deviercy,
au3!
437 Pine strent, San Fraucisce.

## John R. Sims, <br> 

## Oregon atreet, between Washington and havis and Fron and Jackeon streets, SAs Fraversco.

## 

ga. All orders from tho interior Origon, Warliington Torritory, Vuncouver's Istand, Britiah Columbla, or any
pince on the Pacific cosst, attended to with promptues and dispotch.

Mr. Sima Apprectates the Pant liberal patronage of his frlends, aud trusta that bo may
continue to merit it in the nuture. For the Informaltion For the Informaltion of Strangexs
he would my that he feeds condtent that his experi-
ence in his pmrticular calling is surpased by none on
this coast, which his eufurior worts selt to almost evethis coast, which his eupurior work, sent to almost eve-
ry town in this state, Oregor, also Victoria and the Suncl Wiels Islands, and to bo seen on some of the best buitdings in snu Franclsco, fully attonts. A harge assortment
of second hand shutters for sale at low rates. api3

## LEANDER RANSOM, Civil Engineer

## SURVEYOR,

Having been connected with the public works
of the State of Ohio for 20 yoars, and the publi surveys of the State of Califordia for 7 years. ALSO

## STATE LOCATING AGENT.

600,000 ACRES OF STATE SOHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twnoty per cont in eash and the bnlance
on a credit of several years. on a credit of several years.
OFFICE: Seentid Door of ner of Montgomery and Cakifornia streets.

## D. NORCROSS,

Military Gcods of all Descriptions.
Nary Trimmings and Embroideries. REGALIA FOR ALL ORDERS.

## FOR SALE.

Patent pressed russia tron mining pans.

 Pampa, boult Frame and Lirt Wroughe trou Pipo



 We aro also manufacturers of the

UNEQUALLED
MONITOR COOKING STOVE Or RANGE, For Hotrls.

Exiformity in Names of Mininis Coupan res.- That a grvat evil is being inflicted apou ns, as a mining cummanity, in the similarity of names adopted by our incorporated Mining Companies, is patent to every one. No souner is a company incorporated and in successful tide of operation, with its stack holding a value in the market, than the same name is adopted by half a dozen otber companies in some other and perbaps a neighboring district. If this practice is continued it will result iu a perfect buhel of confusion. The practice should be reformed, altogether. As a check to this evil why should not some prospe ous company whose name has thas been "borrowed" serve an injunction amainst
the use of their name? The evil is a growing one and has already arrived at a magnitude which calla for Legrislative interference, if it cannut be otherwise remedied.
G. E. MOORE,

Assayer and Analytical Chemist,
No. 612 Sucramento stoet,
HAVNG RATABLINHED A CHEMICAL LetBORATORY, cal work, is premared to execute tho ABsay ind Anslysis
of Ores, Mheral Waters, Guanos, etc., with accursey and dlajpaich.

Prof. J D. Whitney, state Geologist, San Francisco.
Alsop \& Co., San Fravelzo.
Suther \& Church, Fan Francisco.
John Parrott, siun Franclaco.
D. O. Mills, Nacramento.

## PEOPLE'S

OPPOSITION
Steamship Line!
Special Notice. The Steamers of this
Linc have bech witharawn from the Ni-


GRHAT REDUCTION IN RATES!!!

MOSES TA YLOR, Will be dispatdh for PANAMA From Mission street Wharf,
SATURDAX, - - - OCTOBER 3, 1863 Connecting at Aspinwall, by the Panama Railroad, with tho Splendid Steanaship
hheinois
2500 Toze.
The Moses Taylor, since her list trip has undergone the most extensive repairs. Her decks have been catended forward and aft ; cabing enlarged, refted and
repaiuted throughout-making her ucconodations equal to ady stemener on tho ocean.
For further information or Paksage, apply to
I. K. ROBERTS, Agent,


## BOOK KEEPING, Penmanship

OOMMEROIAL OAIOULATIONS, Taught by J. S. LUTY
PRACTICAL ACCOUNTANT,
305 Montgomery Street, Cornor of Pine.

## TO QUARTZ MNERS,

Alorsong interested in Mining Man extminu nyy mproved Amalgatontor, tit is unquasition-
ably sulprior to nuything now known for amalgamatiog ably sulprior to ninything now known for amalgamatiog
Silver und findi. Ii works 1000 pounds at a time, nad
 of the revolving mulier, the pulp 18 drawg through its.
contro aud passes under it, between the grinding; surfaces, to the circumferonce, from wbence ei passes again races the muller to the ceotre, through the lioles and betweou the grinding surfice to the circumferenco us be-
fore. Thuna constaut circulation of the pulp is kept un fore. Thua a constaut circulation of the pup is kept up,
brugging the particles or ore again aud again uufter the brumging the particles
multer and reduciug the whole mass to an imoalpable
low
powder. but at tho circumference and centre of the pan where the metal must pass through il as the pulp circulates: A patent was graut persons are anail warnurd agnant cember last, aid ane made at the Miners' Foundry called
purcliasing manchines
i. Wheoler's Amangamator," as they are an infringenient

 all can judge of their operation snd the very superior
sylyt on which they are beiog mannfactured. Syle in which tacy ure beyg mathomas yarney

THE MINERAL WEALTH OF WASHOE.
In considering the mineral wealth of Washoe, at this present writing, we wish to be understood as confining our remarks to a very small portion of the region known by that name. We wonld include Virginia City, Gold Hill, Silver City', Empire, Ophir and Dayton, embracing a parallelogram say of eight miles in length by two in width. The famous Comstock lead passes through this district, and furnishes the chief, but hy no means the entire amount of the precious metals which is taken therefrom.
Perhaps the most reliable data from which to estimate the yield of this dis'rict, is that recently furnished the Territorial Enterprise by Wells, Fargo \& Co's agent in Virginia City. From that data it appears that the following, expressed in round numbers; passed through that office during the period specified below :

Total amount for the past eighteen months, \$5.466.000.
The rapid and uniform increase of the above amounts, from quarter to quarter; is perhaps the most interesting and sug gestive idea connected therewith. No one at all familliar with the present rapid progress which is being made in the development of the mines in and about Virginia City can for a moment doubt but that the quarterly shipments will continue to gradually improve for many years to come. The game authority has set down the yield of the entire district, under present consideration, for the year 1863 as ollows,
Virginia City,
$.6,000,000$.
Silver City and Gold Hill,
10,000,000.
Empire, Ophir and Dayton,
$1,000,000$
$\$ 25,000,000$.
For manifest reasons; which must fully appear in the actual returns of the two quarters of the present year already passed, we have added $\$ 1,000,000$ to the estimate for Virginia City, making the total estimated yield of 1863 foot up Twenty-five millions of dollars-a pretty-good yield for a section of country embracing not more than thirty-six square miles. The next year will doubtless largely increase the amount.
The best evidence of the correctness of this estimate is the value at which the leading clains are held in this district. We append a list of the claims on the Comstock lead commencing with the Ophir and ranning south and including the Yellow Jacket, with the number of feet in each claim, and the market yalue of the same.

| 1. Ophir . . . . . . . . . . 1,400 | \$2,500 | \$3,600,000 |
| :---: | :---: | :---: |
| :2. Mexican. ........ . 100 | 10,000 | 1,000,000 |
| 3, Central . . . . . . . . 150 | 1,500 | 250,000 |
| 4. Balifornia. . . . . . 300 | 1,700 | 510,000 |
| 5. Central No. $2 . . . .150$ | 1,000 | 150,000 |
| 6. Kinney Ground. :- 60 | 12,00 | 72,000 |
| 7. White \& Murphy.. 210 | 700 | 147,000 |
| 8. Dick Sides...... 500 | 600 | 300,000 |
| 9. Best \& Belcher ... . 225 | 1,000 | - 2225,000 |
| 10. Gould \& Curry . . . 1,200 | 5,000 | 6,000,000 |
| 11. Savage . . . . . . . . . 800 | 3,000 | 2,40)0,000 |
| 72. Hale \& Norcross : , 400 | 1,700 | 680,000 |
| 13. Choliar or Potosi: : 1,400 | 1,000 | 1,400,000 |
| 14. Frairkiew or Bulliou 1,200 | 1,500 | 1,800,000 |
| 15. Apple \& Bates - . 10 |  |  |
| 16. Omega S. M. Co... 290 |  |  |
| 17. Gold Hill Co. No.l 300 |  |  |
| 18. Gold Hill, No. 2.. 300 |  |  |
| 19. Alpha G. H. M. Co. 300 |  |  |
| 20. Imperial S. M. Co. 118 |  |  |
| 21. Fairfax, Doax \& Co $4 \overline{3}$ |  |  |
| 22. Sheldun \& Graves. 321/2 |  |  |
| 23. Hamilton \& Co.... 223/4 |  |  |
| 24. Grissem \& Co. ... 20 |  |  |
| 25. Spar8ow \& Co..... 20 |  |  |
| 26. Hemilton \& Co. . 20 |  |  |
| 27. Mrs. Plato ....... 10 |  | 3,836,000 |
| 28. L. S. Bowers .... 20 |  |  |
| 29. Winters \& Booth. 20 |  |  |
| 30. John D. Winters. 30 |  |  |
| 31. Coover \& Co...... 21 |  |  |
| 32. Sice Company.... 131/3 |  |  |
| 33. Imperial S. M. Co. 65z/3 |  |  |
| 34. Winters \& Co. .. 50 |  |  |
| 25. Dall \& Daris .... 25 |  |  |
| 36. Johneon \& Ladman 25 |  |  |
| 37. Rogers \& Whipple 25 |  |  |

28. Arsington \& Co..
29. Irvin de Uo.
30. Burke \& Hamilton
31. Stewart \& Co...
32. Yellow Jacket ... 30

11,213
1,000
$1,200,000$
$2 \overline{3,470,000}$
The above Companies from No. 1 to No. 21, are Incorporated, with the exception of No.16. From No. 22 to No. 42 , the ground is-all held in private hands with the exception of No. 34 which is associated with 21.
Numbers 16:to 43 inclusive comprises what is known as the Gold Hill portion of the Comstock Ledge. The total number of feet included in the above clains is 11,213 , which, at present' actual selling rates canot be valued, in the aggregate, at less than $\$ 24,000,000$, or an average of a little over $\$ 2,000$ per foot. This estimate includes only those claims which are located directly upon the Comstock lead.
There ? are known to be numerous parallel leads in close proximity to the Comstock and more or less continuous, throughout aluost its entire extent, all of which are more or less paluable, and in sone of which tho stock is held at from one or two hundred, to one thousind dollars per foot. To the - north of the Ophir is Cedar Bill, which holds an immense store of metal, the yalue of which is daily becoming more and more apparent. Far up end all along the Ciastern Slope of Mount Devidson, are leads, many of which are already assuming quite a prominence in the market. To the south of Gold Hill and the claims we have enumerated in that district, and down through Silver City, are atill other numerous claims lqeated within the sixteen miles sqnare to which we are confining our remarks,
In all of these values we have taken no account of the city itself, with its numerous blocks of buildings and real estate, its -immense stocks of merchandise, etc. We have moreover based our estimates at actual cost values in gold, where common labor is worth from $\$ 4$ to $\$ 5$ per day, and where mones is worth from 2 to 4 per cent. per month, on good security.

As a further evidence of the richness of a portion of this ground, it is stated on good authority that the little strip of 468 feet between Nos. 20 and 35, has yielded not less than $\$ 6,000,000$, within the last three years-some portions of it having yielded $\$ 3,500$ per foot in a single month! Five feet changed hands in No. 26, within a year, at $\$ 10,000$ per foot. Some of the owners in this strip of 468 feet have made and spent a fortune in a month; others hare pocketed and invested from $\$ 10,000$ to $\$ 20,000$ per month, clear of expenses. When people talked of $\$ 4,000$ and $\$ 5,000$ per foot in the early days of Washoe, they were set down as lunatics. Now the solid bars that are turned out every week, are pointed at, as indicative of the wisdom of the whilom vissionaries, while the croakers of those days are now nearly crazy with vexation at their former faichlessness in the value of these mines !
Of the total number of 11,213 feet enumerated in the Comstock ledge, only about 4,000 have as yet been developed into dividend paying grounds; some two or three thousand feet more will probably be added to the dividend paying list inside of six months, and from 9,000 to 10,000 feet of this ground will be dividend paying withis about one year from the present time; which developents will add very many millions to the value of the ground, and corresponding millions to the annual shipments from the district.
The developments in Reese River within the past six months, have fully equaled if not exceeded anything which was ever witnessed in Washoe, and there is good reason for believing that three years will do fuily as much for that country as the same time has clone for Washoe! The ball is in motion and now moves on by its own impetus. The probable result, figure it how we may from reliable dota, is absolutely astounding.

Only a few nonths since, in common with most of our cotemporaries, we joined in deprecating the Report of the Secretary of the Interior in his estimates of the probable future yield of the mines of the Eastern Slope; but the results of the past few months have put altogether a new face upon the mitter, and we are forced to acknowledge that the Hon. Secretary, is not so rery bad at guessing, after all.

With all this prospective wealth, however, it should not he forgotten, that mining, even in the limited and immensely rich territory to which we have confined these remarks, is
zes. Taking the district ass a whule, including outside cloim s hundreds will anass fortunes by jadicious irvestments while thousands will luse by reckless ones.

The Boundary Question.-The Boundary Commissioners' now runing the liue between California and Nevada 'I'erritory have progressed so far with their work as to determine that Aurora City, lies about four miles to the eastward of the Califuruia line, white Honey Lake Valley, which had been pretty much given up to Nevada Territory, is found to be within the State of California. Cali ornia will be a gainer in territory, but a loser in population by the adjustment; but a question of much vexation and inconvenience will be dififnitely settled.
Silfer in Idahoe,-Rumour says that silver bearing lodes have been discorered in Idahoe Tertitory. A Sau Francisco company was incorporated in this city on Monday last to work one of these mines.

## THE MINING SEARE MARKET.

The Mining S! are Market still continnes quiet. The chief excitement of the weck has been the defaults of certain speeulators who bave faild to come to time on some of their engagements. The market has been well tested, during the past week, some of its leading shares which were well sub tained, though frcely, offerod.
Ophir has been largely dealt in, 900 share having changed hands at from $\$ 1,995 @ \$ 2,125$, closing at $\$ 2,000$ firm. The dividends of this company will not be increased until after their new works are fully completed. A decided iouprovement in this stock may be looked for after that time.
Since the "cave" three or four bundred tons of ore hase been taken out from an old pillar in the soath part of the Mexican mine. 'I'his pays about $\$ 200$ per ton. During the past four years the ore taken out of this mine came from the southern portion of it. and at the time the accident occurred this portion had been pretty much worked out. As soon as their new shaft is completed they will drift to the nortb.m portion of the mine and work exclusively in that. There is no stock of this mise in the market.
Gould \& Curty has been hut little deal in during the week. A dividend of $\$ 150$ per foot was declared on Saturday, payable to-morrow. It is understood that the Directors might have declared $\$ 175$, still leaving a heavy balance for October, but the majority ruled otherwise. The total asssments from the start have been but $\$ 150$ per foot; the yield of the mine having furnished the balance of the heavy sum of fully $\$ 700,000$, which their mill and miaing improvements have cost. The company has determined to still further increase the working capacity of the mill which they can now do without any interference with their usual dividend. The monthly yield of this mine alone, at the present time, is not far from $\$ 400,000$, while its monthly dividends are about 3 per cont. on its present market value of $\$ 5,000$ per foot.

Potosi Shares are much in favor, with but few offers. It 3 readily taken at $\$ 1.150$.
Savage is quiet at present. Chollar, ditto.
Best and Belcher are not much offered, and closed at $\$ 825$, although an assessment of $\$ 100$ per foot was levied on the 24th instant.
Hale \& Norcross has not been enquired after. The mine works of this company will soon be equal to the best in the 'Ierritory.
Mexican No 2, which we suppose to be the same as that quoted "Spanish No 2," has met with considerable favor, and is quoted at a large advance.
This Company, we understand has strack very rich rock, Sales have been made the past week from $\$ 37$ @ $\$ 60$. It is confidently expected this stock will still further and matoially advance.

## COPPER.

The copper trade is already beginning to assume considerable commercial importance. The shipments from the mines at the present time, are estimated at fully 1,000 tons per month, which will produce rery nearly 200 tons of pure copper, worth about $\$ 125,000$. By the opening of another spring, this amount will probably be trebled. A large number of promisivg mines are now commencing to ship, whose ca-

## raciti"y for raising ore witl be inereased several hundred fold <br> fithin the coming oix montho.

T The present rate of shiphushts does n t fairly represent the quantity of ore being raised. however. from the fuct that onay mines are dectiving to sell at the prices now offering areferring to buld ou to their ores until spring. Mureuver s largiv portion of the ore new being raised, must remain at the enouth of the mines until somo mode of concentrating he same hate been adopted. The machinery now in process ,f erectivn by the Mesors. Pownings, at Copperopolis, will, probably, soon begin to add largely to the production of ship lying ore from that loculity.
Buyers ratos for cupper ores, deliverable either in this city for at Antioch, are at present as follows, puyments made in gold :- 82 per one per cent. for ore yielling 8 to 12 percent.; 8225 , from 12 to 14 per cent.; 8250 for 16 per cent., and $\$ 3$ for '20 per cent. and upwards.

Copper mines do nut appear to be suffering from the genral depression so prevalent in other miniug stocks. Although but little of this cluss of ore is offered at our Stock Hoards, we are advised that there is consicerable enquiry for this class of investment throughout the State, mid much capital will soon be absurbed in this growing interest. The permanency of copper mines and their superior reliubility, over other mining stocks, for investment, is begiuning to bo fully appreciated.

More copper discoveries are reported in the vicinity of Ione City, Imalur cuunty. These discoveries are supposed the be on the range of the famous Newton mine.
The llome Ledige, Fl Durado county, liss made its sceond shipment during the past week, 144 sacks. It comes to this city.
Several hundred tons of ore were received from the Na poleon by the Stuckton buat on Monday last. A letter from fone of the proprieters of the Oriental assures us that that company is now taking out ore in considerable quantity, and that their first shipment will soon be made

Another extensive copper ledge bas been discovered by prospectors from Marysville, in the vicinity of Brady's Ranch. The croppings are said to be rich and extensive. There ia less excitement, now, concerning the Yuba copper lodes, but there is also more coufidence and iodustry in developing them.

The Nevada Transcript of the 23 d inst. says :-"Several companies, in the copper region in the lower part of the county, have struck fine leads. Among them are the General Hooker, Wild Irish snd Copperhead. Several promivent copper men from San Francisco and Copperopolis have visited these mines within the past two weeks and pronounced them as rich as any in the State-Copperopulis not excepted. The owners of the above companies are pushing their shafts ahead and we shall soon expect to hear of heavy shipments of copper ore from this region."

The Mountain Messenger speaks very encouragingly with regard to the "copper fiplds" in the vicinity of Gibsonville isierra county. The Eagle Company is spoken of as having a ledge of concentrated mineral five or six inches thick at a depth of 50 feet. The Newark ledge "contains a bronze like deposit of native copper, disseminated through the rock in delicate sheets and fine particles. Ounce nuggets of pure copper have been repeatedly found in the hydraulic diggings crossed by this ledge." Native copper has been found in al the tunnels crossing the course of the Slate Creek ledge at Mt. Pleasant, but none of them have been run low enough to strike the solid ledge.

The Isabella lode, in Sierra county, is attracting considerable attention. The ore from this mine yields largely in sil ver. It is thought that the silver it contains will pay the entire expense of working the vein. Moderate sums are offered for shares, but no sellers are found. Work upion all the ledges in the neighborhood of Round Tent, Nevada county, and Empire Ranch, are being vigorously prosecnted. Th Burra Burra and Rock Creek Consolidated Company bave a well timbered shait down fifty feet, with encouraging pros pects.

The work of development on the Mount Diablo Copper Minea is still progressing, with improving prospects. Th Mechanic's claim has a tunnel in 60 feet, most of the dis tance in lard rock; 17 feet more will strike the vein. The Keokuck have a tunnel in 65 feet. This company find three
the three are coming together. There are ceveral other good clams in this vicunty. Tho Mount Zion is senerally cunsidered at the head of the list. The tirvat Impublic has a mammoth 17 feet lead, whict prospects well in silver as well Sau Muors, Copper Aye, Romelia and many other companies are located in this vicinity.
Nemen of

itnle \& Noreross
verra Nevada sherra Neyzuda.
 Bervath Chan lee Caney
$\therefore$ atonento Suwa
Sis Dorado En Dorado
Noptran
Burnide Burnaide
Alritic. Brentic Irride of the Wonc ImperimiCeusr Hill Tunnel
Moubt Davidsou
Coural Cientral
Cultifor
aia Kngers, $F{ }^{\circ} \mathrm{D}$. Lucerne:
Lady Rrya Lady Rrya
Li Crosse La Cross
Morn.
Porter Crowa Point
Minhatuin Minhatuin
Hulsous Hudisous -
Luly EIfen
Schiller Schiller
Sedeca Sebeca
Vcunvins EOMELSI DA arocks.
Wile West Wille West
Anteione Alleciope
Vimmaruld Rtah Sisver Hill
Nevada Fevada South Lua
Jenuy Liad. Falls of Clyde
Sublseam,
Bainhog

But \begin{tabular}{l}
Banhhos, <br>
Great West' Tun. <br>
\hline

 

Burliggton <br>
E) Yaso <br>
\hline

 Crockett 

Erocke <br>
Étua <br>
\hline
\end{tabular} cosi stocks. Josephind

Willow Spr Willow Springs -
Empire - Compir
Coso
3hxtcay wings
Mige Pricta Mina Pricta
Dina Гaljre Ding Parlire Nappleou
Fosephine Napephine
calurorsia Calurorsia stocka
Laurel hill Laurel Hill
Rhoties Diggi Rhoiles Diggings
Eureka Eureka
Fellowes Fellowes
Rock River
Utica Utica
Htmo
Dran Hemmatit stocks. Great Basin

SALES FOR THE WEGK ENDING SEPT. 17, 1863.
Ophir. ............900 Shares $\$ 1995$ (@) $\$ 2125$ per foot.
Falls of Clyde. ... 20 " Falls of Clyde. .... 20
Josephine. . . . . . . . .
Coso. . . . .
Coso . . . . . . . . . . . - -8
Gould \& Curry . . .
Savage. . . . . . . . .

## Chollar.

Pride of Washoe,... 55
Bullion,....
Esmeralda
Melones..
Laurel Hill, Willow Consi... 10
Willow Consol ${ }^{\prime}, \ldots 20$
Branch Mint,
Die Vernon,.
United Cosmopoli'-s 5
Union, G. H.,.... 92 Rhode's Diggins,.

## REPORTUEHIDS <br> fior the weck watug suph. 20, isock



Hate of Nureruss.
Fusle
Fulo
Bultic

\section*{| N |
| :--- |
| C |
| C |}

Buatic.

## ESMERALDA STOCK LIST.



Tre Value of an Assat-a Caution.A gentleman last week was on the point of concluding a large sale of copper on the basis of a 10 per cent. yield-which was the estimate of a large house who proposed to buy. In time, however, to avert loss, he was induiced to have an assay made.

The mean of three assays made to his order "by "Mr. J. H. Churehill of this city, amounted to 20.31 per cent. of metal. A buyer was found who accepted this estimate; the seller finding the cost of an assay a very smatl item in his savings.

The Humboldt Register publishes the following rather heavy item :-
We see that a company has incorporated in San Francisco with an extravagant capital stock. It is the 'Humboldt Peak' G. \& S. M. Co.-Capital stock $\$ 3,960,000$, in 3,960 shares of $\$ 1000$ each. 'Irustees, Robert Beck L. B. Harris, L. Gors, J.. M. Frey and G: W. Stewart. ${ }^{2}$ Don't know whether they reserved in trust deed the right to increase capital stock ; but that already napmed oughit almọst to build a railroad to California.

The prevailing idea that lightning always strikes the tallest of a group of objects, wás disproved at Woonsockt, Mass., when a cottage entirely surrounded by higher buildings and trees received the whole of a stroke.

An English Minié bullet and Spring field rifle-ball met in the air during' the-siege of Vicksiburg, were welded by the impact, and fell harmless to the ground. They are now firm friends, aticking each to the other closer than a brother or a lover.

R. W. MYERS, \& CO.,

Ohases' New Mill, Fremont St., near Market,
JOB TURNING \& SCROLL SAWIVG

## BRAOKETS, <br> RED WOOD BALUSTERS,

NEWEL AND OEDAR BALUSTERS for stairs.
Manafacturers of every description of Oval, Oircular and Square
PIOTURE \& LOOKING GLASS FRAMES For the Trade at Now York Prices.
All kinds of Desings for Building:
R. W. MYERS.
H. c. sones

## R. $\cdot$ W. FISHBOURNE, <br> PRACTICAI LITHOGRAPHER; <br> ENGRAVER AND PRINTER,

 Certificauos, Bilis of Exchange, Bille of Lading, Bauk Checks, Latidseapes, Arebitectural and Mariue Vicws
Show Cards, Labels, Etc, extcuted with dispatch. N. B. All orders in Crayon Work promply attended to.

## MINING.

N. B. Mining Stock Cortificates executed with promt-
neess and dispntch, and at greatly reduced rates.
jy 6 MTERS \& DAGGETT'S
Mining and Stock Exchange,
Mining Stocks of All Kinds Bought \& Sold.
Eusiness connected with Mining Stncks ot every deseri *** Abstracts of Tilleg Furnished, Eitc.

GENERAL NOTICES

## DR. H. AUSTIN,

 DENT1ST;
## No. 634 Washington stíeet,

Between Montgomery and Koarn
Baths.)
I have recently received from London a Now aur
Beautifu! Vulennite (India Rubber) for Artificial Tpeth Beautifu! Vulennite (India Rubber) for Artificial Trech, which is far suporior to any other ever ased. It is light
cleanly and durabie, and of a natural color. The cbeapcleany and durabie, and of a natural color, The cbeap-
cst and beet material for temporary (and in many casea)


## DESKS

Office Furniture, of ALL KINDS...... For salk by

## John wigmore,

No. 423 California St., San Francisco office jobbing, of ali Kinds, attonded to.

SQUARZA'S PUNCH,
FIRST PREMIUM at the sacramento agricultural state fair ALSO; FHRST PREMTUM
At the.San Fradcisco Bay District Agricultural Falr, 1862 Manofactort, wholratir and IREtat, No. 44 Leidsdorff street, Opposite the What Cheer House, Ean Francisco.

## CHARLES GEDDES,

## ARCHITECT,

Cor. Montgomery and Bush Streets,
Over the Marcantile Library Ronms,
jy 20
San Francirco

FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGETSMAN
No. $\mathbf{4 3 2}$ California street, cornor of Leidsdorif
Draw inge of Modziy made foriparties applying for pat
marts 2 m
euts at Washingtou or Lundon.
New Patent Agency.
 The Patent Agency Business;
And would invite Toventors and niscorerers on the Pa
cific coust, who wish Dispatel as well as Economy to call
and
 to, which, thge ther with our own exporicoce of severai
years, rendera the onining and Scientific Press Agency Patent on the Pacific enast. Apply at
Offce of the "Mining and Mcientific Press," Roon No. 57, Government House, corner of Washington an

FOREIGN PATENTS OBCAINED By applicatlon at this oftee. Roum 57 Goverament House
EWER \& SMITH, Solicitors.

NOTICE TO INVENTORS. Inventors wishing to file Cavents should apply at thit
Oftce, Room No. $E T$, Government Hous. Terms manlyrato.

## PATENT RIGHTS.

Patent Rights Bought and Sold,

TMPORTANT TO IN FEN'IORS. Inventors who nitain their Patente through this offic can have their Inventions illustrated and deseribed
the collumns of this paper Frke of charge, they merely
 nish cngravings at reasorable rates. Thase who do not care to go to the expense of haviug engravings premared can have their invent tinos fally moticed and deseribed io nur columbs, free of charge. The freo use of our col-
umns to nid them in introducing their inventions to the
 ventors.

Offices To Let, Tn the Government Housc, Covner or
Whahington anil Samsom Streets. Two large suits of Offces, the most commodions and arcessible on the city
C. A. CRANE, Pruprietor

GENERAL NOTICES

## HAYNES \& LAWTON,

mporters and dealers in

## CROCKERY,

GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery
OLOCKS ,
Silver Plated and Britania Ware, ETC., ETC., ETC.
NO. 516 SANSOME STREET
[CORNER OF mercllant,] San Frangisco.

WHEELER'S Amalgamating and Separating Pans.
It is acknnwledged by all who have examiod tho prin-
ciples and witnessed the upcration of thene Tans, that ciples and witnessed the uperation of these Tans, that
they nre decidedly superior for trituratiug and amalgathey are decidedly superinr for trituratiug and amalga-
mating purposes to any other in use. mating purposes to aby otacr in use
The most important principle counected with the opo-
ration of these Pans is the siparation of the triturating process from th: $t$ of extracting the amalgum from the sand. The chief cause of lush of the precirus metats ari-
ses from the passing off of the same in combination with ses from the passing off of the game in combination with
the quicksilver, during the proces of trituration, and in
cleaning up By the introduction of the Separating Pan clealing up By the introdnction of the Separating Pan
to llow the trituration this luss is entirely avoited. In
wror wrorking these machives bere is do upprecisble loss of zuicksilver, nud belice nune of the precious metals. Where these Yhas bave been introduced and operated
Gy the side of others on sauds from the same vat, the
Fheeler laus Fheeler l'aus bave unformanly gamed a large porcentage of metals over its competitors, as well \#s a still larger parcentage in the amount of work performed.
*** Theso Pans man be scen in duily operation, at the
Hiner's Fouviry, in First street in this city, where all Miner ${ }^{\prime}$ Fouvdry, on First street in this city, where all
aterexted are invited to call and cxamino for themselves. gol6-1f ZENAS WHEELER.

## Wm, P, TAAFFEE, <br> inporter and jobber of

Staple and Fancy Dry Goods,
GARPETS, DUCK, ETC.,
Cor. Fxont and Sacramento streets,
San Francisco.

## REMIOVAL

OFFICE OF THE PACIFIC METAAL
 Gold rock por dny. Golld and Silver ore, and Sulphuret Assaycrs, or Sil
versmiths' swcepinge reduced or purchased, versmiths' sweepinge reduced or purchased,
coppler OBE O-Highest market rates ad
 509 Sacramento street, near, Sabaome.

NATHANIEL GRAY, General Funnishing Undertaker, 641 sacramento st., Cor. of Webb,


## HOTELS.

International Hotel,
Jaceson Street, --...- - San Francisco
[A few doors above Montgomory.]
FIRE-PROUF BRICK BUILDING.
Most convenient to the
ing, Business ats. \& Pisces of Amusement
OPEN ALL NIGHT.
City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Five Bathing Rnoms attached to the Barher Shop
THOROUGHLY RFANOYATED AND NEWI,Y FURI mished this spring. Every Room opers to the Lifht and Air. Each romm is furnished with a first quality
Patent spring Bed and Huin maltresses. The IoternationPatent spring Bed and Huir mait tresses. The
al offers to guests the greatest number and

Best Furnished Family Rooms and sets as anod atarle as any House in tho cyty, I am determined that the International slantl be tho most comfortable, best reculated, and in ull respects nu-
perior to any like entablishment in the state, and shan perior to merit a continuance of the popalar faror it has enjoyed beretofore. It will be conducted on Temperauce Principles.
f. E. WEYGANT, Propribtor

## Tremont House,

## 48 nnd 420 .... . Jackson Street

THIS FINE, FIRE PROOF PUILDING DFFERS MANY
 ooly half a bloek from the Pout Oflle and Custonn House,
gad about the same distance from the priucipal places of and about tho same distance from the priucipal plates of
amubement.

## The City Railroad Cars pass the Door.

The House is conducted in Temperance Principles
WHICH SEGURES TO OUR GUESTS QUIET.
The prices for bontd and Rooms are fery mnderatehom All. F. E. WEYGANT, Proprietor.

For the acenmmodation of my many guosts 1 hevo ta ken and refurnashed the Isterxatiosis. Hotel, and will curty on tho iwo houses in connection, so that Traveler
wisting to put up at either linuse, may take the Trumont or International Hotel Coach nud be taken to either Hous with their buggago, Firees.
F.E. WEYGAN'R.

THE RAILROAD H OU sE.
Nos. 46 and 48 Commercind and Clay Sts. SAN FRANCISCO.
H. T. FELTON

PROPRIETORS.
The above House is a Fire-proof building, with Grnnite Front, and kept on the European Plan, with board and lodging by Day or Week to sult the convebience of our Patrons.
The Rooms are handsomely furnished, upplied with Patent Spring Beds, and Huir Mattrances, nfording very mpertor accommodations for tamilies or single persons.
The Table is supplien with the best the market afforde at prices to suit the times.
The Rail Road House Coach is aiwnys in attendance at the Steamera to convey pasengers and thoir baggage to the House Frec of Charge. The Iouse is open all night.

## P. M. S. C 0.

 road with the steamerr or the At

> FOR PANAMA.

The following Steamships will be dispatched in the month of September, 1863.
Scpt. 13th, - - - Steamer Orizaba. Scpt.g a3d, - - Stenmer Golden Age.

Will leave Folson Street Wharf, with Passengers and reasure, for Panama

AT $9 O^{\prime} C L O C K$, A. Mf., PUVCTUALIY,
connect, via Panama Railroad, at Aspinwall, with And connect, Via Panama
teamshipe for New York. teamslips for New York.
A. B. FORBES, Agent.

FUCNINRIES \& M.lUHINF: SHOL'S.
REYNOLDS
Patent Cut-of and Govornor FUK STEAM ENGINES.

1at of sheee Invatuable Machinem ARE NOW IN USL:


## Steen's Improved Governor



## Clark'sSteam and Fire Regulator,



MOYNIHAN \& AITKEN,
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, San Fraucisco
N. B All kinda ef Boiler and Sbeet Irou Work exc. rinat

## P UMPS!

HARRISON'S
California Lift and Force Pump, WHHOET VALVFA OR Packing Suitaule for Mives, Fire Enginex, Wreeking or Irigat
g. This is th: Checupest, Lighteat and most Durable gid must hable to gut out of order, of auy Pump yet iu fenwed,

ATI SIZES;
apable of throwiug fram ONE HUNDRED to EIVE
HOUSAND Gulluws per Minuke-FOr sule by
C. H. Harrison, Phœenix Onl Works,
R-15 6x7 Front Street, Sum Erancisco,

## 50 lbs MARLNE and

Fire-Proot Paint, $\mathbf{M}^{\text {ANUFRCTURED }}$ Wy the pacific metallergical
 Buthms or shlis, it in equal to s coat of sitoue, and uite equal to Coppar, no worm
neaper than any other puint.

## DIRECTIONS:

For noeks or Ships, uso two parta Mineral Palnt, on Fut White Lead, toixwith Linseed Oil.
Fur Buttoma of Vessels, use one part free parte Mineral Paint, mix with Coal Tar sud apur Far sale by allShip Chandlora and Tradesmen, in buxe
50 dbs. 日ach, or by the Pacific Metallurgical Works.

25 POUNDS FYRE-PROOF PAINT.
When used on Ronfs, Buildinga, or Fencer, it is equa ire Proof, and costing less thau any paint. DIRECTIONS :
HOUSE :- -3 ix three parts Miueral Paint with one part
bite lead, thin with Linseed oil: if a lighter color is tite lead, thin with Linseed oil: If a ligbter color is
unted, mix less paint, mure lead. Hoov:-Five parts of Mineral Yaint, one part white
tal ; nix with Lingecif oil. Put it thick on a tin Red
 G. T. Fouque, Superintendent.

VORKS, North Beach; Ofice, 509 Sac ramento st., San Francisco.

FULNHRIES \& MACHINE NHOIS.
PALMER. HANACUM \& C'O.
GOLDEN STATE IRON WORKS,
No. 10, Firut street, san Francisco,
Furvish Custings and Machiuery of all kiuds

Grnuink Whitr Iron Shoeg and Dieg. PALMFR, LIANSCOMB \& CO.

## To Quartz Miners.

 Hinox' ImprovedAMALGAMA'TNG PAN, wiru
PALMER'S PATENT S'TEAM CHEST
The above combination eecures tile most

 Wise lush Made ExClurvely by , DAMMER, HiANSCOM \& CO., Gulien sitate fron works.
Nos. 19 \& 21 First Struel, Sisu Fraticiseo
The poblic are informed that fetters Patent have heen
 te cantinsed againat making, buybug, using ar selling

## GALLAGHER \& WEED, <br> BRASS \& BELL FOUNDERY AND <br> LOCK FACTORY.

## Brass and Composition Castings and

 Finishing, done with neatness and dispatch.$C$ hurch and stlamboat relis, of ail stzes Made to order. Enginecis Gonga made and Lung
In the lest manner. Bank, Vault, Store and Prison Locks, uko brnss Padncks abd Sbop Locks and Prison patterus, on hanit and made 10 order.
Martieushar attention given to custing Rudder Ben
All Jobs promptly attended to.-Prices moderate.
moderate.
Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom, san frakicticu.
$\mathrm{F}^{\text {TERY DESCRIPTION OF IRON aND bRass machi }}$
 patch at the Miners' Foundry and Machine Wurke, as: Stcom Fuginer and Boilers, Flour, Saw and Quart mill machiuery, Miuing Pumps, Amalgumatura, Retorts
Particular attentinn will be given to the manufactur Machinery iu sections, desikned for places of difficul tors and Water Wheels-8omo in operation and on exhi
$\qquad$ *. Partios desiring to test their ores practically, in sinall
cost.
All partics desiring acenrate and higbly inished drnw luge and Superior Machinery, at mosi reasnable rate Hown.AND,
San Francisco, F Fobruary $23,1863$.

## San Francisco Machine

IRON WORKS!
Northeast conner Fremont and Mission Streets.
 Steam Engines. Hierms. Low Pressuro ; Quarte
 ain ing purpuses, wine Presues, Arcievilural Implement c.ete, and Castiogs of al deaseriptions ma
Steam Engines exclunged and for male ty

REPARRNG prompty mitended to. DiNsilore $\& \mathrm{CO}$.
FOR SALE.

## FUC NDRIES \& MACHINE SHOPS.

VULCAN IRON WORKS COMIPANY
P. Torquet, Manager,

STEAM ENGINE BOILDERS

## BOMER MAKERS,

Iron Founders and General Engineers,

## No 137 \& 134 First ntreet, San Franctseo.

Pomplng, Holuting, Mining and Quartz-crashing Aachituery.
Shoes and Dtes of the burdeat iron,
Russis irou l'uuched Screems.
Stcamboul Machinery : Naw, Flour and Sugar Mills. Higt und law Prenure Bollers of all styles.
Josval aud other Turbiee Wuter Whuels with latest uprovements.

## W. T. \& J. GARRATT', City Brass and Bell Younders <br> Cor, First \& Market sts., Sun Franciseo <br> $B^{A}$ bBet metal castivas, fike mainfe, FORCe <br>   Puiks, Iron steam pipe furnished with tittinge,  <br> D. MORRIS, MACHINE SHOP, 227 Market, corner of Beale Street. Manuficturer of <br> WARRANTED FIRE-PROOF SAFES Mill Work, nf all kinds mude to order. All kinds or

## LEWIS COFFEX AND RISDON,

 STEAM BULLER AND SHEET IRON Tho oniy exclusively Builer Making Establishment on Tho oniy exclusively Builer Making establishment on Boilor Makers. All orders Lor Now Work, the reyairiug to quality.$\qquad$ Stand, corner Bush and Market Streets
Opposite uriontal Hotel, San Franoiscen, Cal.
LEWIS COFFEY
[HEODOR KALLENBERG
Maker of Models FOR inventors.

 Keparing of Machinery urumptly attended to.
No. 418 Market street, San Franelsed.

## HIRAM WRIGHT,

 PICK MAKER,Has established a Manufactury for the Making of MENER'S PICKS,
NO 141 busu Street, SAN FRancISCo, [Between Sunsome and Battery]
Wiere can be bad a superior Pick for Miners use As he manufactures all his picks utider his owu persobul
surpervisiou, be warrauts then as being mude of the best materail and by the Lest workmauship.
Orders attended to uod filfod promptly and with rifs-
patch.

## WRIGHT'S PICKS.

$\boldsymbol{J}^{0 H N}$ WRIGET, of Sacramento, has establianed bim-
self in San 'rancisce, for the manufacture of every desciption of PICKS, or tho bost material, at reduced prices. Pick Eyes of the bestiron furnished in any quin
tity, at low rates Ordera from the country prompty tity, at ow ratco ordera remine, country prompily
attended to. N. B.-None genuine unless stimpod with
my name.
JOHN WRUGHT, 511 Market street,


CALIFORNLA TOOL WORKS !
John Weichhart,

## -All Kinds of Edge Tools, Etc.,

## lane frons

Moulding Irons,
Stone Cater's Tonts,
Larket and Mission,
iy
20

A Nev Paper Mill is to be arected by the side of the one alreally in operation on the sau Lurenzo kiver, which is to furnish printing paper. The one now in operation manufactures wrupping paper only, and is said to be a very protitable investuent.

Tue Powder Mill, in the same lucality, will soon be in operation. Most of the wachinery is already on the ground.
It is estimated, says the I'ajaro Times of the 19 th inst., that, within the last year, there has been invested. by Santa Cruz and San Francisco capitalists, in mauffucturing enterprises, on the San Lorenzo River, ut loast five hundred thousand dollars, These investments are returning fortunes. It is ssid that John Sinie, of San Francisco, has about one hundred thousand dollars in the Powder and Paper Mills.

The Ofposition Steayer, Moses Taylor, will sail promptly as per advertisement in another column. The announcement that she would be hauled off and placed tempurarily in the Mexican trade was without any fuundation whatever.

Tue discovery of extensive lead mines in Missouri is now an established fact. In Franklin and Washington cousties the deposits are very rich, and working-men are already earning twenty-five dollars per day in its extraction. Large bodies of the laud can be bought for from five to ten dollars per acre, and it is estimated that one acre will yield four thousand dullars worth of-lead.

Eye, Ear and Throat.

## DR. DE CASTRO, Oculist and Aurist,

WHO HAS PRACEISED NN NEW siun oin the nued succeest, aud rrum ench placo is ut possas.



## Self-adjusting Artificial Tympanum,

For the reher of deuluers, atteuded by losix or iujury of frum the ear-htichisemtion uf De Custro, in dischurge of "leafuen- Pructically llustrated us to its. Nature and
The self-idjusting artifcial Tympanum was irst introMedical theciuly of Luydou, ous the al the meeting of the 1863. Au anmmated discussiou cheued ou the reaturg of
 Lhe ur.gival disctevery.
Mr. Sulker brown (tember) bore teatimony to the selfAdjustink Artillcial tymparitum, as luc had beservell the imianeus beutila young lady tricand of bis bad received Itrum it. She was suract, quite deaf, and in a mest miseruble state; the effect of the tympullum was instantaue-ous-quite like a miracle. Five more teatimoutifs frum
Members of the Moulicail Collcge, New York, aud tho prin-

wial Mr. Frditor-Having been aflicted Witu deufness for the hast two years, originating trum a
sevore sold, and fur the last moulh suffering from tho most excruliating pains in ny ear, I was oblinged tuccume duwu to Sau Fraucisco to seels rolief. After a physician'e
 K carny ud Market strceets, and underwent une operatiou,
aud it is with the utmost waud it is with the urmost pleakure I cuus say my beraing il my duty :s make this keowa to the bublic, and 10 recoumend Dr'. Do Custro's still as an zarist. Jopa Rally.
James Callighan, witpess.
San Erancinco,
[From the Daily Alta.]
Forra dany alta:

$$
\text { gan Francisco, Junc 30th., } 1863 .
$$

Roors daley alta
Pormit ne through your widely circulated jouranl. to deaineea siuce she was thirtsen mont beld , aud that aho has beeta a member of the neal hud Dunabl lustiutute since
it was orgaized. Ou taking her to Dr. Do Caturo, on the corner of Kearnoy yad Harketstreets, and undergoiug une der his directina, two operations, she haf heurd sounds
pery distactly ; Rud is now, I ann lappy testate in a fair
 istuctory; aud I deem this uet ice due to Dr. De Custro for-
his skill; and would recommend all parties similarly afo
 times been under the care of the most shalful physeieinus
and uurists in California, but up to the periou of visitiog Dr. De Casiro, recelved nio benefit.
CHAS JOHN P. WRIGAT,

## MINING NOTICES

Wide West Copper Mining Company, or
 Twerty-Gve cents was this diry levisid ou cach and erery

 Coin, tu the sceretary, at the nfifec of the Company, or to B. Pike, Superintendent, at Copperopolis. | By order of the Board of Crustees |
| :--- |
| Beplisore, Secretary. |

## $\underset{\text { Gola Flat Eagle }}{\text { Eistict, }}$ Gold Mining Company


 above uamed companv, and payable immedratly in Uui-
ted States Gold Coia to the Secretary at his office, or to ted Stater Gold Coia to the Secretary at his office, or to By order of the Trusteec - 0 p131m

Winoma Gold and Silver Mining Company - The tirst annual meeting of the stucblulders of held at the Company's outice, No. 4288 Moutgomery street for the election of five Tru-leus for the eusuing year, on
the 191h huy of September, 1863, u1 The P. B. By order of the Board oi Trustem. M.G. WiMSORE,

Red Jacket Mining Company.-At a hela July 7,1863 , he first asecsement of Five Centa per share on the capital strack was tevied, pay able iumedi. ately $m$ United States gold comin, to the secretary, one
4ㄴ0 Montgomery street, Room No. 2 . isy or ler of th
Buard.
J. W CRUSLEY, Secretary.

Notree is hereby given that an Assesmeut of tell (, 10 ) cents per share ou each hud every
blare of the Guphal Stuck of tho Buena Vista Gold Siver Mining Company-Fort Pitt Ledge, Priuce Roya day le Vied, payabl immediately in U. E. gold coin, to
the Secretary at No 413 Montgomery streel, Nan Frau By order of the Board of Trusteps H. B. MINOTT, Secretary,

$$
\begin{array}{ll}
\text { September 22, 1863. } & \text { H. B. MINOTT, Secretary } \\
\text { sep } 28
\end{array}
$$

## Mining Shares For Sale

## O. H. ORANE,

Oifce as Governmont Rlock.
475 Shares U. S. Miniag Cumpany, Virginia City. 910 Shares Granada Gold and Silver Mining Company
Virginia Hill, Virgini. City, 108 Shars Evoce Consolit
108 Shars Evoca Consolidated Copper Mining Com 20 Shares Mohave
20 shares Mohave Mining Company, La Paz District
Colarado, N. M.
30 Shares Aspenwall Go
Devil's Gate District, N. T.
75 Shaes Washing ton Copper Mining Company, Isuia
Bar, Tuulnmine Co.
8298 Suares Montgomery Gold and Silver Hining Compay, Inyo District, Tulare Co.
Mining Cumpany, Inyo District, Tulare Co.
50 Shares Corwa Point Ravine Gold and Silver Minin
10 Shares Triunfo Gold and Silver Mining Company
San Antonio District, Lower Cslifornia.

ARMSTONG \& WILDER;
VIRGINTA CITY, N. T. ${ }^{\circ}$
SEACHERS OF RECORDS for Mining Claims if Real Estate. RELIABLE ABSTRAOTS guaranteed at reasonable prices. LLETTER SOF ENQUIRY
promptiy answered.
sep28

[^11]MINING CAIDD.
OWEIVS RIVER CANAL COMIPANY Capital Stock
$\$ 1,000,000$
10,000 Shares . . . . . . . . $\$ 100$ per Share.
A Portion of this Stuck is no offered to FULL PATD AND UNASSESSABLE Sock, also Arsessable Shock, can be oblained of A. J. DOFNER \& CO., the authorized Agents of the Company 406 Montgomery steet

Presiden
Sceretary
Treusure
supermit
.
R. S. WEIGHaM, formerly of Wbigham's Mil, Nevad

City. .ijam Flemino..................... of San Francisco
 WILLASI P. PRATT................................... of Nowher \& $\&$ Cu
$\underset{\substack{\text { Offce } \\ 28 s \iota 1}}{ }$ of Company 328 Montg cmery stree
ALEXANDER STOTT,
MINING SECRETARY, 512 Sansume Strcet, San Francisco.

Secretary of -
Hossesshof, Silver and Copper, Monto Disblo.

T. O. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgonery Street.
$\mathrm{O}^{\text {PHIR SILVER Mining ETOCK, }}$
GODLD \& CURRY MiNiNG STOCE, chollar mining stack,
California stean natigation cós stock, BOUGHT \& SOLD.

## J. F. MILLER.

MILLER \& COLEY,
Stock Erokers \& Mining Agents 327 MONTGOMERY STREET,

Estate Sales Rooms, San Franci:co.
ALI KINDS OF STOCK AND MINING Basiness attended to with Promptness aug17 and Dispateh

## L. F. LELAND,

STOCK BROKER, No. 621 Clay street,
Omee Hours, 10 to 11, A. M.; $23 / 2$ Lo $3 / 2$, P, M. Member of, the Sal Francisco Stock and-EEchango Boar
E. T. PEASE, R.S. CORNING, SAMLC. BOWLEY

PEASE, BOWLEY \& CO, Real Estate, Stock and Exchange

BROKKIS, 681 Montgomery atreet, San Francisco.
Legal Tender Noteb and Mining Stoche. BOUGHT \& $\underset{\text { je.29 }}{ }$ SOLD.

## AGFINCY <br> For the Purchase and Sale of <br> MEXICAN MININGSTOCKS

$\mathrm{O}^{\text {FFICE OF THE PENA AND LA MARRONENA }}$, Culifornial Mining Companics, San Antonio District, Lower All persons are
a above
jel3
Wंw. FACIKNER.
New Bedford Copper Company.
THE UNDERSIGNED HAVING BEEN APPOINTED supplies of their superior manufactures of
Shgathing. Copperg
Brazier's Copper;
Coprer Bolts;
Yellow Sheathing Meral; :
Copper and Composition Nails;
Which they offer to the Trade at the lowest marise
je. 29
29

BUSINESS CARDS.
Napoleon Copper IKining Company Capital stack................ $\$ 1,6 \pi 0,000$
2,700 Shares-- $\$ 600$ Per Share. ength of Lead $\mathbf{2 , 7 0 0} \overline{\text { Fuet ; }}$ Lneation or Mine, Gophe District, Calayeras county: Incorporated
Oetober 3, 1862.

President

F. Maccrellilsif of Alta Califirin
A. J. MOULI.IER, or A. J. Mmat der \& Co
R. G. BRUWY, of Grover \& Bikers. M. Co,

 W. 1.. DUNCAN. Secrotary California Pioneera Ofice or Company, No. $\underset{\text { je29 }}{420}$ Montgomery street.

## THE EUROPEAN

 ORE REFINING
## COMPANY.

Quartz Mill and Furnaece, Bryant Street
Crossing Third, San Francisco.
Receive alli kinds of

## ORES AND MINERALS.

In large or small quautities, for such Experienced Trout
ment hy the ment hy the

LARES LUROPEAN METHODS,

## CAREFUL ANALYSIS,

At their works, to be the most Effectual in obtaining ro
liable resulte, and afterwards converting whatever pre
cinus Metals they may contain, into marketable Tngots.
, The South Park, and Folsum and Kearnystreet Cars
au31

## The Pacific Mineral Compnay

Make liberal adyances upon the ores of
Copprer, Silver, Tin, Nickel, Cobalt, Zinc,
Lead, and Sulpherets containing Gold.

Parties owning undeveloped inines and desiring capital
to pronlect tho samo will receive to pronpect tho samo will receive assistance, if, upon ex-
amination, such leads are decuned sumcieutly valuable a mination, such leads a ro
to justify such experditure.

OFFICE, No. 1, ODD FELLOWS' HALL,
je1-tr Mnutgomery Street, SLin Francisco

## MARTIN \& Co.,

OFFICE--2at Montgomery Street, Up Staira,

## will contract for the

Purchase of Copper Oress
Ansaying 8 per ceat and upwards of Conper to the Ton. We will make ADVANCES upon Ores of COPPER, TIN We will mat. $\qquad$ algncments if desired by the consignors.
Henry Martin, J. F. Greenban,
San Franciseo Post OMc 3, Bos 1:269.
je 1.
San Antonio Gold and Silver Mines,
FORWARDING \& IINING AGENCY.
SAMUEL SMITH
OFFTCE-North West Corner of Front and Clay
$\mathrm{M}^{\text {ining macainery and mérichandise for- }}$ miving Claims secured, throult Tesident moon, Moing Claims secured, through the resident Agont at san Antom, in and information
nished regarding sny clain., mission.

## H. C. KIBBE, midning secretary,

Commissioner for Nevada Territory
548 Sacramento st., cor. Montgomery

BUSINESS OARDS.
SOUTH PARK
Quartz Mill and Reduction Works
GOLD AND SUVER ORL's WORKED AT REASON
lots, All kiads, and workiug Assays mado of swal crushed at short hutice,

W. W. HANSCOM,

Steam and Mechanical Engineer,
Designs furished, and Drawings made fo. Engiues, Mills, Water Wheels, Mining Ma

aug x
First Strret, San Fruytice
TO MINING COMPANIES
Offices To 工et suites or single rooms, in Govermment Block:

El Paso District, Los Angeles Oounty,
MINING AGENCY
C. W. TAPPAN, GENERAL AGENT "Head Quarters," Mesquit Springs,
Will attend to any bosiums conucted with these mine for a reasoonable conaideration.
Leverze of bxerury, colluining Revinue or Postag Stamps to the value of nity cints, and cuchasing inn ady
 specimens, of each lode in the nistrit, a portion -
nauy of which ure for sale at very luw ligures.
 Ei Paso,
nu31

MINING \& SCIENTIFIC PRESS.
the onl ymining, mechantcal ani SCIENTHFIC PAPER ON THIS CONTINENT.
THIRD TEAR: VULUME VL-NEW SERITS
A uew rolume of this extensively circulnted paple
commenced Sopt. 11, 1862. It is iutenucel that over commenced sipt. 11,1862 . It is intenuell that over
number slaall be replete with iuformatiot concernin number shan bo repiete win infornatiol concerniir
Mining, Scieutific, Mechiatical aud Industrial pursuit shingy, scieut sc, Mechiathical and ladustrial pursurit
together with scveral origital engravings, of new inver tions, ctc., propared expressly for its folumns. Thin paper is devoted to the above purposen, togeth
with the interests of Science Arts, Apricultere und Con with the interests of Science, Arts, Agritulture und Con
merce, and any rencral informntion that may be of it merce, and any yeneral information that may ue of ic
torest to the realler : and it is the inteution of the psi
 in interest and valuable information to any
published
The Mining Interest?
 news anpertaining to Mining, the prices and sales of M,
ning Stocks, vew inventions of Mach inery adapped to th:
 vico to the Miner. The Inventor !
Fill find it an excellent medium for the purpose bringing his iovention into notice, of ascerraining progress of invention in this and other countries, ab
also of receiving any information thet may be nece also of receiving any information that may be nece-
aary iu obthining bia patent, the proprictors having ha mary iu obtaining bis pateat, the entoprictors having ha
grent experience as Patent Agents, together wifl faci

diypatch.
Ihe
echanic and Manufacturer $!$ Will be greatly benefitted by its proasil, as itn of
umne will romm time to time contain original engrly ings of new machines and inventions, together with large amount of reading matter appertaining theret
We aro constantly receiving to vest sciontioc joun

onr readers.
This Chemists, Architects and Millwrights
Thual witl be invaluable. All new disconeri This jourual will be invaluable. All new disenveri
in Chemistry will be given, and a farke mount nf inf
 ters will not be neglocted, engravings will be given
agricultural implic ments, and the farmiug interest ge erally will be amply discussed.

## Terms.

To mall subacribers :-Four Dollars per ansum
Club Rates.
Fhe Copies for Six Monthe, $\$ 8$.
Ten Copies for Six Months, $\$ 16$.
Ten Copies for Twelve Months, $\$ 30$.
Names can be sent in at different times and fre.
gratis to any part of the country.
Room 57, Government Hotse, Corner of Washtogt

## REMOVAL.

The Ofice of the Mrining and Scibntific Press, has been remored to Ruoms Nos. 56 and 57 Government IIouse, corher of Washington and Sansome Streets. We have been nduced to make this change of location, not ouly with the fiew of securing m.re room and better accommodations for lourselves, but chiefly to better accommodate persuns haviug business with the office. Our location is now central, easy pf access, and in the direct way of the chief travel of the fity to and from the Post Office.

## TEMPERING STEEL.

The state of combinations between iron an carbon, which appears to be essential to form steel of the best quality, is, is is well known, destroyed by heat, so far as to entirely imbair itg most important qualities. In tempering steel, the fifect prodaced by plunging the heated metal into cold water, 5 a sudden coatraction of its bulk. The particles of steel re suddenly $d$ riven together, as if by concussion, presenting very close analogy to the effect produced by hammering. $t$ is the character of this concussion that determines the bombinations of iron and carbon which results in the formalion of steel. The heating of the metal not only expands it, put also gives to its particles a certain mobility, which enales them so to manage themselves, that by the sudden conussion which takes place in cooling, the peculiar combinahon necessary to the formation of steel is affected.
If a bar of iron is heated to a bright red heat, and hammerd on an anvil, covered with finely-powdered charcoal, until thas cooled down to a dull red heat, and then planged into fold water, it will be converted into steel at the surface. $A$ bar of iron leated to a bright red and cooled to a dull red p powdered charcoal, without being hammered, will not preent any signs of steel, when plunged into cold water like he bar previously hammered.
Take untempered steel and disolve it in acid and there re. tains a black substance, resembling graphite, which is insolble. When tempered steel is thus disolved the insoluble esidue is not more than one eighth that of the untempered. $t$ uppears, therefore, that tempering produces a true chemical change in steel. Steel formed by hammering, leaves a puch larger percentage of insoluble reaidue than that formed y tempering in the usual way.
Hence it is inferred that the combination produced by lammering is not so complete as that produced by tempering, pecause it produces a concussion of the particles of steel in ne direction ouly-in the direction of the blow-while the ladden cooling by water causes a concussion of the particles a every dirction at the same instant.
In tempering, the more sudden the cooling, the greater is the force by which the particles are driven together, and the ardness and other characteristics conmunicated to steel in mpering, are in an increased proportion to the time of cool-

## [From our ${ }^{\text {spectal }}$ Correspoudent.]

Editor of the Mining \& Scifntific Prass:- It will be unnecessary, I suppose, to give au account of my trip to Stockton per steamer, for beyond the clear, soft blue sky brilliant moon, and balmy nights of California's summer season, it possessed no unusual interest. It would be improper, however, to omit an acknowledgement of the usual courtesies, which the Steam Co, extend to the Press us on these occassions, and we beg to return onr thanks for the attentions so liberally bestowed upon us.

## the faik.

The first day of the Fair, never amounts to much anywhere, being chiefly confined to a suitab'e arrangement of articles for exhibition in the pavilion, and to racing. With reference to the latter, the people of this distriet may be satisfied; for, I understand the horses, running and trotting, made better time, than any previcus year. Dr. Holden, with cordial politeness, presented myself and friend Bromall, with complinuen tary tickets, bidding us use them well and freely, wherever we desired to go, and for whatever we wished to see. The stock exhibition, the races, and millitary reviews, I could not visit, being prevented by attention to my special mission. They were all admirable, however, and passed off brilliantly, with one exception, when by the use of an old gun, totally unfit for service, a soldier had his arm blown away, a little below the elbow. His recovery is doubtful.
tele mining department.
In conformity with my instructions, I paid particular attention to the "Mining and Mechanical Departments;" but dotted down some general observations, of such articles of local produce and manufacture, as I thought possessed sufficient importance to be generally interesting. In neither of the first cases was the exhibition large, although good. Fine samples of ore were on exhibition from various mining localties. Two large blocks of Copper ore were especially noticeable, from the Napoleon and Keystone leads; but as I shall have to speak of these wonderful mines when I get to Cupperopolis. I shall say no more at present, than that their samples for size and quality were magnificent. There were splendid samples from distant mines, Washoe, Reese River, and New Mexico, of silver and copper, which I pass over, as not coming legitimately under obserration. The Great Republic and Hall claims, Monte Diablo, had good specimens present, calculated to raise the copper interest of that section. Lalla. Kedolka, or some such name, 'Toulumne county, had good samples. The Colton claim, Hawkeye district, Calevaras county, very good. Gopher district, same county, the same. Copper Hill Company and Lone Star, both copper, located at Campo Seco, had very superior samples. The Antelope Company; Calevaras county, silver, had a splendid piece of rock. The Dead Set, Col. Warren, Beach How and Confidence leads, were simply marked Mariposa; their sample were good in general. The Cirele of Light claim, exhibited croppings of silver ores from Plata Verdi, the best I have seen in the State; while the Chancellor Pettigrew, the only gold specimen I saw on the table, Sonora, Touloma: county, bordered upon the magnificent. There were other ones of greater and less value exhibited, from different coun-
ties, which I have no time nor space to notice; and in conclading this portion of iny letter, I would observe, that many of the labels were incomprehensible, a fault very much to be regreted as it causes unnecessary confusion and trouble. Those exhibiting articles of valne and general use, should be more explicit in their discriptions.

> tee mechanical departmint.

As I have already stated, the Mechanical Department was not large, but the articles were superior, I shall uotice only a few of the most prominent. The first was a large and magnificent hearse, by Hoffman and Brendt of this city, made to order for the coroner and valued at $\$ 1,600$. It is really a gorgeous price of manufucture; hut whether it will benefit those whom it carries to their last home, I know not. There is nothing of the kind equal to it, however, in the State. In these days when we pay so much attention to the dead, and so little to the sufferings of the liviug, I suppose it is all right.
Mr. J. Pierce of Stockton, had a magnificent set of draw-ing-room furnature, that would do credit th the Occidental. Nash \& Fogg had a case of gentlemen's boots, worthy the dandies of Paris, London and New York. "Webster Bros. had a most ingenious corn-sheller, which will be of great use to this State. The machine I thought most of, for its convenient size and great power, was the Union Plantation Mill, for grinding corn, on Baker and Hamiltons's stand, but manufactured in Philadelphia. It makes excellent flour, and needs only the labor of one man; they had also an air-churn which makes butter in three minutes-only think of that. Mr. Miller, of this city, offered two splendid wagons, for siugle and double spans, which for lightness and strength, were mach admired. There were any amount of washing machines, which appeared to attract the ladies; but on listening, I found their opinions varied so much that I prudently abstain saying anything about the partienlar merits of either. Dr. Debrom of this city, had a most beautiful glass machine, showing the circulation of the bleod through the system. It is beautiful, meritorious and instructive.
I am sory I bave not time to notice the many other useful exhibitions present; but I cannot omit saying, that if Stockton does not go much ahead in buildings and improvements, her cilizens are alive to their interest, and present articles of home manufacture, which would do credit to any State in the Uuion. J. D. P, Walker, had troo sets of harness: one buggy and one wagon, which in material and workmanship would vie with the celebrated Consend harness.
The other cities of prominency were all represented.Bowen \& Co., of San Francisco, had a magnificent ussortment of family groceries of every discription. The Messrs. Taylor of Sacramento street, sent up some of their own paper, which is spoken of in the highest terms. A Mr. Jno. Burns, had some horse-shoes, and racing plates which for finish and designs, 1 never saw surpassed in England. Jacobin, of the Pioneer Distillery, Marysville, had a jar of turpentine, and glass resin, made in their establishment, which all ágree, cainnot be beaten by any country. Provost of San Jose, had a magnificent display of silk-worms, which were very interesting as they we:e busy at work spinning. I have long advocated
the cultivation of the nulberry tree, instead of the grape-vnie, for a product of value, and a means of industry there is no comparison between the two, so far as the best interest of the State is concerned. There was any amou $t$ of California wines exhibited, but I don't think much of that branch of our revenue.
FRUIT EXHIBITION.
Although this section of country has been slow in cultivating good fruit, they have succeeded at last. A more magnificent display was never presented to public inspection. Mr . Bensón, from Mokelumne river; had ten apples which I measured, und found they averaged 15 inches round. I took the length of a bunch of six carrots, and found them all nearly three feet long. The Mormon Slough Garden, gave grapes weighing five pounds and upwards per bunch, while the beiry was as large as those of France. There was one bunch, from a Frenchman, more splendid than any I ever saw in France. Squash, beets, cabbages, etc.-were ever such monsters seen? One pear, out of hundreds, of the Datchess D'Angolome tribe, weighing 33 ouncers-did'nt ones teeth feel funny. tribe, weighing 33 ouncers-dir'nt ones teeth feel funns.
There as a bag of sweet Lisbon onions, grown by Mr. Murray, which he says are infinately, better than any he ever grew in the richest soil of Ireland. They were xeally magnificent. Mrs. Dr. Beatman had a sample of home-made raisins, one year old, and others of dried-apples, pears, peacles, plums, not to be surpassed in any respect. You must understand, that I have only culled these particular specimens from a host of the highest order, and which I do not mention, simply because I have not time. I can only add, in this connection, that San Joaquin is entering on a bright desting.

## fancy articles.

The ladies' handi-craft formed a conspicuous feature this year: I could not spend the time I desired in examining its many treasures of tastes and skill. Mrs. So-and-so and Miss Something-else, had so many articles of costly beauty and magnificence, that I concluded it would be too dangerous to mention any particularly. I cannot omit, however, even at the risk of having my head taken off, mentioning a blue dress-coat, with gold embroidery by Mrs. Melender. It certainly, for gorgeousness and accuracy, beats all of the kind I ever saw; not accepting the official coat of His Royal Highness, the late Duke of Sussex, while at the head of the Masonic order in England; for, though not so varied in color, it -was equally grand and elaborate in execution, Babies' caps, dresses, bed-covers, and a thousand things, mysterious to us bachelors, laid in profusion before me, and all I think it safe to add, on this branch of industrial skill and energy, is: God bless the little fingers making them; may they never weary in their own duties of life, for it is far better to be thus employed, than manufacturing bloomers and writing politics.
I acknowledge this is but an imperfect discription, but copious enough, I trust, to be satisfactory to my old friends in Stockton, who have treated me so kindly on niy re-appearance amonget them, and interesting to your numerous readers; whose indulgence $I$ crave on this occasion. The post is closing, and $I$ have to prepare for the ball to-night. . The lady I take polkas easily at 2-30, which is fast time, and the thermometer stands somewhere about ${ }^{\circ} 90$-if I survive you shall hear from me next week.
L. Harnett.

Our Wells.-A correspondent writing from Titusville, Pa., furnishes the following in reference to the oil regions in that State: Almost as old as the hills surrounding it are the springs which once gave it the name of Oil Creek, and now makes its fame world-wide. There is but one king here, and all are subjects. The head and front, the root and branch, of every species of business, in its legitimate callings-as speculation in its most rampant form-is Oil ; consequently you see, in close proximity on every side, oil depots, oil refineries, oil derricks, oil tanks, oil shippers, and the everlasting inevitable oil team-at once a nuisance and a necessity, as you may judge when two thousand of them have passed over a given point or bridge, where a market was kept, in one afternoon, cutting up the roads in a frightful manner, and reducing them to such a state that, between mudholes, stones and stumps, you may well suppose that pleasure riders are not the order of the day. For bustling activity and teeming population we resemble Western towns; while dreams of wealth, wilder and more fabulous than the Arabian Nights bave heen realized in a daya What do you think of "the big well," which flows two thousand barrels a day, bringing its owners an income of two dollars a minute, and supplying
one-third of all the oil sold here. There has been a million of dollars paid by its owners for this well-one small share having been sold for $\$ 15,000$ These are only a few facts of the many, of the wealth accruing privately and collectively to individuals. The well owned by Dalvell Brothers, brings them eight huddred dollars per day. The revenue which accrues to the Governmrnt, is five millions a year. What has the South to offer equal in resource to our oil wells?

## $\left.\begin{array}{r}\text { El Paso Crty, Los Angeles Co., } \\ \text { Aug. 27, 1863. }\end{array}\right\}$

Ed. Press:-It is a very dull time with us; hot weather but little emigration. I suppose all are waiting to cast their votes before starting out.
I have been at Ophir City for some days past helping the Tappan Oompany to open thelr tunnel to the Ohio lead. They are progressing finely. While absent a circumstance of considerable interest has transpired: No less than the advent of a live white woman, the first ever seen in this district, who has' accompanied her husband; Mr. Boyd, with a loaded ox team, to Slate Range, on a pleasure trip, I suppose. They passed through our city yesterday, and will probably return in about ten days.
31st. at Ophir City. For three days we have had terific thunder and lightning storms, accompanied with rains, lasting ahout an hour or more, breaking through our tents in all direction, and washing everything inside, upon the ground, making our situation very uncomfortable. The sun, however, comes out warm a part of the day, so we shall soon be all right again.
Messrs. Milliken \& Warner have just completed a good board house, (the first in Ophir City,) and outsiders have had the priviledge of sleeping there while their camp floors were drying.

Sep. 2. A team just arrived from Los Angeles, with supplies for all hands, and news up to the 25 th ult.
I heard that Geo. Merrick, the young' man who was wounded by his own pistol, while riding on horseback, has had his leg amputated; was very low, not expected to live. Charles Nesbitt, who was so serverely wounded in a tunnel here, Aug. 14, was doing well and able to be out.
7riz. The team started back to-day and took 14 more specimens of ore croppings for your cabinet, and some for
But little prospecting is done here now, yet as many as six new and promising leads have been located within ten days. The work of tumeling is going on without interruption, and in a few weeks we hope to be able to send up some rich ore for reduction.
The Live Oak Gold and Silver Mining Company have just got their deed of trust signed, preparatory to incorporating. And intend going to work on their claims, La Platas 1, 2 and 3, and the America, right away.
The Gila, (pronounced hee-lah,) River excitement has had a tendency to direct the tide of emigration'from us to a great extend, and may seriously retard our growth. We hope that the hard working men will come here, as this is far enough from civilization, though only half as far as the new diggings.
9th. In Press, No 39, we notice a reference to a new drilling machine, invented by Mr. J. S. French of Bangor; Maine, and I earnestly wish that something of the kind could be introduced here, where tunneling is the main business of all.
Could you not influence some clever man who has a firstrate article in that line, to send us out ove as a sample, by which we can order more if they are successful. I would take all the responsibilizy required in the arrangement, and our mines would throw some of their feet in the market, al a very low figure, to procure a machine, which would take the place of handwork.
C. W. T.

How to Administer Castor Oil to Children.-The Medical fraternity of Paris recommend the following way of administering castor oil to children :

The quantity of oil prescribed is poured into a small earthern pan, over a moderate fire, an egg broken into it and stirred up so as to form somthing like what cooks call but tered eggs; when it is done, a little salt or sugar, or a few
drops of orange water, or some currant jelly should be added. The sick child will eat it eagerly and never discover the fraud.

A single firm pays one hundred and fifty thousand dollars year to the London Limes for advertising.

## MATERIAL FOR WINE CASES.

A correspondent of the Alta, furnishes, in substance, the following to that paper:-A question of no little importance to the wine-growers of this State is that of casks to hold the wine. 'Hitherto pipes used in importing liquors have been employed, but experience has proved them in many ways unsuitable, to say nothing of the fact that the supply will soon become totally insufficient for the demands. The ordinary material for wine-casks is oak, but the oak of California is too brittle for any such purpose, and new casks, made here of imported oak, cost about 20 cents per callon, The winegrowers of the State were in a serious difficulty; they thought of sending to Manchuria for stave timber. Fortunately they are now under no necessity of going so far. It has been discovered that the redwood of Colliformia will serve the purpose; and for this important discovery the winegrowers are indebted to Col. Harazthy. The redwood is a tree peculiar to the coast of this State;-it is not found in any other part of the world. The tree is, next to the mammoth trees the largest species of the vegetable kingdom, growing to be 300 feet high and 20 feet in diameter. The wood is
straight in grain, and it splits very fieely; and it is thug pole straight in grain, and it splits very fieely; and it is thus p culiarly fitted for stave timber. But the wine growers wre a fraid of it because it has a strong red color, and a very astringent juice, as is shown by the black color which it assumes whenever iron touches it in a moist place. Both the color and flavor of wine therefore were in danger from it. Col. Harazthy tried to draw out all solnble culor and flavor by steaming, and he succeeded; and the wood was thus rendered fit for wine casks. He steams the staves for sixteen hours. He says that he has proved the fitness of redwood thus prepared by a trial of four years.

Important alleged Medical Discovery,-Among the latest reports of the principal hospital of Paris, is an account of a discovery of great importance. It appears that a young student enunciated the theory that gangrene or mortification was caused by a deficiency of oxygen in the part affected, and advanced so many plausible reasons in support of his views, that the surgeon in chief to the institution, who happened at the time to have a case of gangrene under nis care, determined to give the hypothesis a fair trial. The patient was over seventy years of age, and his foot, in which the disease was making rapid progress, was about to be amputated. The mortified part was enclosed in an apparatus so contrived as to yield a continous supply of oxygen, and the result was that the gangrene was arrested and the foot saved. The experiment was repeated in the case of another patient equally aged, and with the same success. The inference is that oxygen thus aplied, is the specific for a disease which is the scourge of all hospitals for the treatment of surgical cases, Since the present war commenced, probably many hundreds of our soldiers have died of gangrened wounds, and if the ap-
plication of so simple and agent as oxygen gas will stop the plication of so simple zud agent as oxygen gas will stop the progress of decomposition in living flesh, by all means let the French mode of treatment be adopted in all our military hospitals.

Ancibnt System of Telfgraphing.-At the Royal Institute, Professor Thomson lately drew attention to an ingenious system of signalling invented by Eneas Tacticus, 300 B . C., and described by Polybius. Two earthern vessels of the
sane form and size were filled with water, and provided with a stopcock. One was kept at head-quarters, and a scout carried with him the other. Down the sides of each were placed short sentences, such as "eneiny moving off," "enemy coming," "enemy gone," \&c. . The scout, when he found out what he wanted, keeping himself all the while in sight of head-quarters of his own genera?, was to wave a flag or a light torch, and simultaneously allow the tap of the vessel with him to be turned to allow the water to run oat. The tap of the vessel at head-quarters was also to be turned on, When the water had sunk to the sentence he wished to communicate, the scout would wave his flag or light his torch the second time, and by immediately turning the tap of the vessel in camp, the general would see where the level of the water then was, and correspondingly the sentence affixed, by which cantrivance be would receive information some hours before the scout could personally communicate it.

An American Tea.-We have heretofore alluded to a shrub which has recently been brought into notice in Pennsylvania as a substitute for tea, of China growth. We find the following additional paragraph in relation to this article:-
An excellent substitue for tea grows in large quantities in Tioga county, Pennsylvania. It is said to resemble Chinese tea so much that merchants bry it to mix with the genuine. In Clinton connty, Pennsylvania, the genuine article is clumed to grow in abundance, and the citizens thereabout are jubilant at the prospect of becoming independent of the "pig-tails." One gentleman, who owns a farm on which the herb is indigenous, says that his attention was first called to it by a native Chinese, who declaired it to be the genuine Ohina terplant. The gentleman uses it on his table, and no one suspects it as not being the imported article.

## A S S A Y S! <br> Promptness and Accuracy Seoured Br the Ube of tho Mont Imphoved Methods of <br> ANALYSIS! <br> Advantagenus 'Terms for I'rospector's Clubs and Miuing Companies.

J. E. CHURCHLLL, M. $\mathbf{A}_{7}$ (FituM FLisul'E,

RIEHN, HEMME \& 00. .
A太SAYEIRS. Mioo, Montgomery street, cor. of Californis

## Assays Made of ores, Minerals and Metals.

ramarikn wimi venuishov to




PCELSIOR IRON WORKS, 71a Sansome street,
Between Jackson and Pnelíc, San Franclsco.
GALLAGHER \& KENNEY,
Snnumficturers of all kindis of rehitectural and Ornamental Jron Work,


bing lone with promptricss,
Orders trom the country prionpty attended to.
WILLIAM BRODIE \& CO.,
CALIFORNIA FOUNDRY,
Light and Heavy Castings,


## Giffards Injectors,

 Wihmet Pumps No mull or Mming Company fend for a Círcular.

Davin stonnart, agent
${ }^{022}$ Cor. Pide nad Frout Sts., Sall Francisco.
PATRONIZE HoME MANUFACTURIES!!!
James Longshore,
runk and Valise Manufacturer,
 ses, und a fiue assurtment of Lambis' TRUNK
ly ou band. Trunks covered and repared.

## New Style of Ladies' Buckle!

W, BOHM,
Inventor and Patenter.
HE SURECRIBEP FAVING OBTAYNED DETTERS PAT-
 s. the snme in every varicty of style. This buckle
p pesas several very inportait improvements ovor any
ofr in use. orr in use.
Pinventiou having been carefully exminined at the mit, ind Lerters phatet haved been grnated for 17 yeare.
Mi cells nill nther huekels in
Fervinces, Strengeth and Appearance. no Public is reppecirully invited to call and examin
 607 Montgomers streeet, NR Francisco, 118 I Street Sacramcutio.
Agents for the Patentee.
ary Buckie fold, starpped "W. Bohm," will b go miteed as to ita Sittength and Murnibity,
W. Boilst, Patentee.

## APARTMENTS.

 mgton strent. Perans desirous of a respectably

## THE

BRYAN BATTERY.

Ther vast interest invalved in the refluetton nf orea on





## ALONE STANDING TIE TEST.

Thie, with the Impravements which Frperience han
gugkextend, is uow regarded, ly cumuou conssut, as tho

## METHOD OE CRUSTING ORE.

Tup Rryan ratrasy, na now conarructed If bellived to comblut alt the inprovenn ente which the experiorice
of the paist has afordeth, They have been

## EXCLUSIVELY ADOPTED

by mnny of the most prombent Mining Complanies in the
 uno--nud in every calse have been prouounced
Effgetive, Substantlal and Reliable.



These Milla are constructed nimant entiroly of fron, and, convequantly, are not afectet by the intchase heal
and dryners of aimoshere, common to all mining localand irveren of a mosphere,
liod. They are udapled to
BOTH WET AND DRT CRUSHING,
and are warranted to rednee, with tho same weight of
Stampus, 25 ner cent, marr rock than
 at a sulbeqent time thus preserving the symetry and
unfformity of the Mill unformity of the Mill
As nn eridence of the incrensing Pavor with which Mince milla are reagarilen, we wnild mention that the


They are perfectly fitteri and set upat our Works, bo-
ore shipping, eacl picec being marked and numbered, ore shiphing, eacli piece being marked and numbered,
so that fliey can be put up and set at work in ten hours

 cast in sections, whon deeired, so that the mills can be
packed over any mountall road.
We annex the names of few woll kunwn Companies Wo have alopted them-runuing from frur to seveuty-

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co. Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co, Virginia City, Trajo Mining Co. Mexico, Sheba Mining Co., Humboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co.., Owen's River, Union Quartz Co., Aurora, Triunfo Mining Co., Mexico, Napr Quartz Co., Aurora, Petaluma Quartz Co., Gold Till, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicararua, Gibhons \& Clayton, Esmeralda, Smith \& Clonser, S. F. Reduction Works Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO.
At the Pacific Iron Works,
L. C. E. KLEPZIG \& CO., GUN MAKEIRS, DEALERS IN GUN MATERIALS, z33 Wauhington etreet, Sin Francisco flaw howr abure hivarmey mireet !\}
Ropnirlng doue in a workinatililike mauner at the shor Gilding, and alon Stiver Plationg, by E. Ekiend. Jo21

## WANTED,

$G^{\text {GLD QuARtz SUITABLE FOR }}$
CUTYING JEWELRY,
by frontier a. deviercy,
aust
437 Pine etreet, San Francisce.
John R. Sims,


Oregon etreet, between Whaghington and Iharis and Fron

## $M^{2}$

annfictarors of Fire Proof Doors anni thgs. All orders from the micerior Cregum, Washillgton Territory, Yuncouver'd laland, Britinh Cuhnmbia, or any
place on the lacific coast, attended to with promptues and diapuateb.

Mr. Sims Appreciates the Past liberal patronage of his frlends, and trusta that be may
continue to merit it iv the futire.
For the Informition

For the Informition of Strangers he would say that he fesls enufident that his experience in his particular calling is surpassed by noue on ry town in this state, Orugun, what vietorin and the sund
ond wich Islands, and to, begeen, an some of the best build-
wind jags in Sau Francisco, fully attegta. A Jargo assortment

## LEANDER RANSOM,

 Civil Engineer ANDSURVEYOR,
Having been connected with tho public works of the Stato of Ohite for 20 years, and the pubs of the State of California for 7 years.
surver ALSO
state locating agrat.
And as Euch baving the Enio of 600,000 ACRES OF STATE SOHOOL
LANDS At the low price of $\$ 1,25$ per Acre. Torms-Twenty por cent in cash and tho balaoce on a creflit or seypral years.
OFFICE, 328 Montgomery atreets.
oc7.3
D. NORCROSS,

IMilitary Gcods of all Descriptions. Nuvy Trimmings and Embroideries. RUE REALIA FOR ALL ORDERS.

FOR SALE.
Patent rressed russia iron mining pans. Rusia Iron Quartz Screens for Mills ;
Portahle Forges ; Cauldron Ketties ; Pumps, bolb Frame and Lift; Iend lipe ; Rubber Hose ; Wronght Trou Pipe;
Bibb Cocks : Coupling Bibb Cocks; Couplingn ; Play Pipes;
Cooking Stoves and Heaine Stoses. Conking Stoves and Heaing Stoses;
Tin Plate : Sheet Tron; Sheel Copper Tin Plate: Shuet Tron; Sheel
Fruit Cans of Various Kinds;
Lard nnd Rutter Cans of all lard nnd Butter Cans of all sizes ; Irou Wuro; Brass Wire ; Copper Wire ;
Copper Rivets and Barrs ; Iroil Rivets ; Eto.
We aro also man ufacturers of the
UNEQUALLED
MONITOR COOKING STOVE

## Or RANGE, <br> \section*{For Hotels.}

 to wbich we call particular attention.Home Manupatches:-Mr. J. L. Gibson, of Forbestown who some time since commenced the manufucture of resin. ctc. in that vicinity, has recently shipyed to Hucks de Lambert, of this city, 14,000 the of resin, manufactured hy him. His still has heen ronning about six weeks, and he has made alvut one thousand gallune of turpentine. He niso manufactures champhene. In the last 26 days, suys the Mayssille Apleal, from whlch puper we guther these facts, he has distilled 1,150 gallons of spirits of teppentine and made 168 barrels of resin, of 280 pounds to the hurrel. His still is of 800 galluns cappecity, and wilh his present a rangements he can run 300 callons of crude terpentine per day, making daily about 50 gallons spirits turpentine, and 2,000 pounds resin.
G. E. MOORE,

Assayer and Analytical Chemist,
 cus wark, is prepareat to execute the Aksay ithd Aualysis of dispatch.

Prof. J D. Whitney, State Geologist, SBM Francleco.
Prof. J D. Whitney, State Geolo

John I'rrour sinn kiaucisco.
D. O. Mills, sheramento.
scy14

## PEOPLE'S

OPPOSITION
Steamship Line!
Spectal Notice. The Stamme of thts
Litu have wot witharawn from the Nicaragua Roate mitil furiher notice.
GRAAT REDUCTION IN RATES:!!
MOSES TAYLOR,
J. H. Blethen................Comander Will be dispatdh for PANAMA From Mission street Wharf, SATURDAX, - -- - OCTOBER 3, 1863 Punctually at $90^{\circ}$ 'leck, $A$. Ss., on
Connecting at Anpinwall, by the Panama Railroad, with the Spleodid Steamship
hlynots
The Moses Taylor, since ber last trip bas uulergone
the most extensiec repairs. Her decks have hecu ex-
tended forwurd and aft; cabins oularged, rolitled and tended forwurd und aft ; enbins oularged, rolitted and
repmiutedl throughuul-muking her accomudatious equal rymiuted throughul-muking her accomudation
to any steamer on the oceath.
For further information or Paspage, apply in
No. 407 Washington Street, San Frawcineo Agent,
BOOK KEEPING, Penmanship
OOMMERGIAL OALOULATIONS, Taught by J. S. LOTY
PRACTICAL ACCOUNTANT,
305 Montgomery Streot, Corner of Pine.

## TO QUARTZ MINERS.

Al persons interested in Mining Mraeximine ny improyed Amalgamator. It is unquestionably superifor to anything now kuown for amalgamating
Silver und Gold. It works 1000 pruuds at a time, and Silver und Gold. If works 1000 prounds at a time, and
 coutro aud passes uuder it, between the grinding sur-
facers to the circumfercnce : fom whepee it passes again faces, to the circumfercnce: from whepee it nasses again
over the muler to the centre, througb the holes and beover the muller to the centre, througb the holes and be-
tweou tho grinding surince to the circumference ta before. Thins a constant circulation of the nulp is kept up, muller, aud reduciug tho whole mass to an impalpable yowder.
No quicksilver lics between the surfaces to he ground,
but at the circumference and centre of tho pan where the but at the eircumference and centre of the pan where the $A$ inteut was granted for this Amalgamator in Decmber last, ind all persons aro again warned aganst "Wlaceler's Amalgamator,", as theyare an infringement
on my patcot, und a snit is now pending la the U. Sir-


## VENTILATION OF MINING TUNNELS.

A most important feature of the expense of rumning tunnels of any great lengtl, in this country has heretofore been absorbed in the suposed necessity for sinking air shafts, every few hundred feet. We have frequently alluded to the bad management, or rather, lack of knowledye of the principles of ventilation in uaderground operations, both in driving tunnels and in drifting per endicular openings, or shafts. A late number of te Virginia City Union gives the following very good plan recently adopted at the famous Latrobe tunnel, io Virginia City:
When this tunnel had reached a length of only a few hundred feet, it was found uecessary to siuk an air shalt, and at F street another; at this point the qottom of the shaft was closed up with the exception of a hole about ten inches square, through which passed a wooden box flume of that size, by which the air is conducted into the futher extremity of the tunuel. The draught is so strong, that notwithstanding the tunnel is west of A street, no other shaft has yet become necessary, and it is thought that no more will be required, as it will be brit a short time befure it connects with the works on the Comstock. A candle held at the month of the flame will be instantly extinguished: Throughont the Whole of the great distance which this flume supplies with air, the tunnel is cool and pleasant, and a person can treath with almost as much ease as in the open air. This plan of ventilation was first suggested to the superintendent of this tunnel, we understand, in reading the translation of an old German work on mining.

The Latrobe tunnel is now in about 2,600 feet, and is in daily expectation of reaching the ledge, (Coun-tock,) which it will strike at a depth of 465 feet from the surface.

The Santa Fe mine, also in the Virginia City district, is ventilated on a similar principle. A tin tube, some four inches in diameter, is connected with a tall wooden flue standing in and reaching to the surface of an sir-shaft, and ruming back from the bottom of the shatt to the furtherest end of the tunnel, where the drifters are employed.

Mexican Mines near Guymas.-A correspondent of the Bullitin, writes as follows from Guymas under date of May 20th :

A* to mines, the machinery of Los Bronces is nearly up, and will be all in order by Angust. Guasapares, Judge H ard's place, is now about running. Judge Butt's Alamos will be running in a forwight. La Prieta-engiue up, and will run within three months. San Marcial Silver Mining Company is well on. Crucecitas will probably be in operation in September. In bonauza are the following ; Bronces, Cabbi, Cotera, Lambona, Cruccitas, Fresnol and some others. The mines of Cerocohni (Nauggue de Cristo) and the Dios Padre, so presistently alleged to be in bon.mz, [prosperty] hy that veracious sheet, the Alta-I dare not say of course, for private and weighty reasons-I again assert to be still in dead nork, without true ores; and 1 challenge any proof to the contrary.-Bullition.
In Chihuahua, the mine of Le Crun, Pastrana, and those of Robingson, San Pedro-both in Batopilas-are in bonenza. Col. Allen's mine in Urique is a second Ophir ; the amount of silver extracted daily is only limeted by the capacity of the hacienda. The ores are very rich.

A New Cod Fishery.-It has been known to whalemen for some years past that good cod fishing grounds existed on the Pacific coast, some fifteen days sailing from the Russian port of Petropauloaski. The first fruits of these fisheries, so far as we have any kowledge, arrived at this port, a short time since in the brig Timondra, which brought in some 15 tons of the genuine article, equal in quality to the best ever caught on the Atlantic coast.
An extensive fishing ground of this discription in the Pacitic. Ocean must soon become of vast importance not only in an ecnnomical point of view, but also as a nursery for seamen. It is chiefly from our fishing grounds that the Government, in its present emergency, has been enabled to obtain the great number of seamen needed to man our rapidly augumenting navy. We need just such a field in this quarter of the globe as a nursery for the future commerce that mast grow up in the Pacific Ocean. It will be wisdom and economy for Government to protect and encourage it, by bounties, as heretofore at the East.

Tamre are in the United States more men and estates that can be assessed for one million dollars each, than there were. at the close of Revolution, that could be assessed for ten usand dollar each.

## [For the Mining and scientific Press.]

Virainia City, N. T.,
Ост. 2, 1863.
Eid. Press.-I should have writien last week, aceording to promise, but business prevented, and I am hardly in writing trim yet, as I wish to obtain undoubted information on every subject that appears in yous colomas from my pen.
The great excitement here now is Reese River, and to such an extent has the stampede that way increased, that all kinds of business here is almost at a stand still. 'This and the coming on of cold weather, have rendered Virginia dull for a time. We have fabalous reports of the richness of that country, hut 1 have seen such excitements and heard such reports before, and an not easily led away by them. I believe that "Reese " is a very rich country, but I kown that Washoe is; that its mines are now fully developed, that its resources are boundless, and I have no doubt that many of those who are leaving good bnsinesses and comfurtable homes for a place where all the known mines are located for miles; with the prospects of a severe winter, scarcity of provisions and lack of shelter, will return to the rich field of Washoe.

The standard mines here are pursuing the even tenor of their way, doing au amount of work and expending sums of money, that must be seen to be belived, while what are termed "outside mines" are working wi.h wonderful energy. Rich indications are being discovered north and south of this place. In a short walk, last week, over the ridge below Gold Hill, where two or three years ago a man who would think of prospecting would have been thought visionary or cracy, I found some fifty deep shafts and tunnels, nearly all provided with heavy hoisting apparatus, worked by horse power, and on several claims large steam engines are being set up. The indications are as grod as those in the best mines here, and and when one or two of the "lodes" commence turning out rock for the mill, mark my words, there will be an excitement exceling any yet, and shares that now sell for $\$ 5$ and $\$ 10$ will count high in the hundreds; on the north, although not as fully developed, the prospects are as good; while on either side of this range the rich lodes are being energetically prospected.

So much for a general birds-eye view of Washoe as it appears to a returued Pioncer. In my next 1 will endeavor to particularize some of the most promising lodes, etc.

QUILL.

## THE DISCOVERER OF ZINC.

Zine was first discovered in 1530, by no less a pesonage than Theophrastus Aureolus Bombastes Paracelsus, the wild fantastic hero of Browning's celebrated dramatic poem. It will, berhaps, be new to most people to be informed that the very word "bombast" took it origiual meaning in the "great and swelling words of vanity" uttered by this singular genius. He it was a ho gave the deathblow to alchemy, and was first to show the ufter hollowness of the then prevailing scholasticism, as respected physical investigations. Being appointed to the first professorship of chemistry, at Bale, in 15\%9-the earliest chair of chemistry ever established-he played such mad pranks, and kept up such a storm in poor little Bale, that the magistrate had to banish him from his chair. After undergoing many alterations of fortune, it irks us to say that poor Bombastes, to parody a mordern phrase, "went to the zinc," and died miserably, in an obscure tavern in Salisbury, in the 48th year of his age.

Japan, just at the present time, is engrossing much of the world's attention. They are a people far superior to the Chinese in point of inteligence and will be likely to prove very stubborn in their disinclination to come up to the present ideas of civilization and progress, and of en their ports, at the demand of the nations, to the commerce of the world. They are far less vulnerable than the Chinese, from the fact that all their important cities are in the interior. They have undoubtedly profited largely by the recent limited intercourse with foreign nations in supplying themselves -with materials and skill in all matters partaining to war. Destiny, however is against them, and their prond Damios must bow to the fat of civilization and progress. Our late naval visitor the Wyoming has most nobly opened the ball. Bye-and-bye we shall see what we shall see.
Fverything is cheap in Japau. A first class house can be purchased for $\$ 30$. Servants work for 50 cents a month. For the use of a horse and groom one week, with food for horse and groom $, \$ 1,50$. A person can live comfortably i Japan for two cents a day, or fourteen cents a week.
virgenia city atock list.
Corrected for the Milung and Escientific l'reess, Thurbday; Oct. 1, $188 \%$


Tin-Lined Lead-Pipes.-It has been frequently propose to line lead-pipes and cisterns with tin, in order to prevent $t l$ oxidation of the lead and the contamination of the wate This proposal has recently received an emphatic rebukè the Liverpool Chemist's Association at one of their la meetings, at which specimens of lead-pipe and sheet-lea electro-plated with tin, were exhibited, and some discussil ensued respecting the wie of lead coated in this manner f water-cisterns and pipes. It appeared to be the opinion the meeting that the coating of tin, instead of preserving t lead, was far more likely to ensure its more rapid corrosio for, if the coating of tin by any means happened to be seratch off, even to the slightest extent, galvanic action would to place, and the lead would be destroyed very quickly. I Nevins and Dr. Edwards stated that their experiments h proved that such would undonbtedly be the case; Dr. 1 wards remarking, that in one case which he bad examin a cistern made of lead, in which was an accidental adm ture of tin, was eaten out by well-water in six months, 1 lead being rapidly precipitated in the form of sulphate.

The Suipping Interest. - In our late exchanges 80, remarkable facts are given touching the maritime inter of the country. An Eastern paper states that during first half of 1860 , the number of vessels clearing from port of New York in foreign trade was 1,795, of whicl 123 were American and 662 were foreign, showing a differe! of nearly 100 per cent. in favor of American vessels. C paring this statement with that of the present year, an ast ishing change is apparent; the whole number of vessels el ing foreign ports was 2,167, of which only 747 were An ican and 1,450 were foreign. The interest of American : owners are suffering in all parts of the world, and large tr fers of tonnage have been made to loreign owners and protection of foreign flags.
San Francisco forms no exception to the general rule, there are to-day more foreign flags displayed by shir in the harbor than at any previous time. Among the eign shipping now here are vessels belonging to Pro Denmark, Hamburg, Bremen, Lubec, Russia, Great Bri Sardinia, and Colmmbia. The high rate of insurance ged on account of the ravages of the rebel steamers $A$ wa, F:orida, etc., has to a great extent driven Americar sels out of our service for long foreign royages, and consequence vessels of other nations are doing the car trade.

## BALES FOR THE WEEK ENDING OCT. 3, 1803.

Ophir............284 Shares $\$ 2025$ (a) 82225 per foot
Fulls of clyde.... 32 Graat Wertem Tun.Juncpline Cusn Surn
Chul
Chil
Chillar............ 120
Pride of Washoe... Rullion.
Finneralda.

Willuw (chisul)
Branch Mint,
Di. V'rrnun,....... 85

Enited (Cusmopuli.,-
Cinion, (t. II.,.... 15

Khode's Diggins,.
Hale e Nore
Unele Sam.
Echo.
Baltic
North P'stosi..... 123

Silver Illil!
Silver Ilii
Garibaldi

## Burlie Bluff.

Willow springs.
Sheba.
Mo Doto.........
Birdsall.
Bob Black.
Napolean.
Fellowes
Fellowes........... . 20
$\begin{array}{ccc}4750 & \text { (1) } & 4900 \\ 25500 & \text { (14) } 34000 \\ 850 & \text { (13) } 900\end{array}$

75 (ai 100
29 (1) 30
421 m
178 (a3) 216

Y ciluw Jacket..... 18
1000 @ 1025
Overnas.
460 @ 475
90 (a) 100
Best d Betcher.... 43
Sierra Nevada.... 23
linney............. 120
Burmig Muscow. . 888
Charles Canay.... 70 Paltimore American. 20
Nurth American.. 60
Ballion (G. H.) .... -
Pride of the West, 233
Ppauish No 2,.... 30
Norton...
Adriatic
Marlison.
Buckeye.
.365
Lucerne.
10
.10
Lady Byran $\qquad$
Mt. Davidson. .
Cedar Hill 'l'unuel
North Ophir
Wide West....... 104
Real Del Monte..... 23
Utah............... 10
Pond.
Grass Valley
. 223
Ural
Bodie No 2
Blue Ledge,
Napmleon, Copper, . -
Oneida,.
St. George,

New Shakl. Store:-On Saturday evening Mr. J. D Robert opened his New Shawl Store, No. 123 Montgomery street. We notice, until late in the evening an admiring crosd gazing at the beautiful patterns displayed in the window. No greater variety of patterns, richer in hue or finer in texture, can be found in London, Paris or New York, then are here displayed by Mr. Robert, from the richest Persian camel-hair down to the lower grade of American woolen, We wish him success in his enterprise.

Mr. H. B. Sontag, at the Mission, has one thousand thriftylooking tea-plants of this years growth, from seed procured by a Gentleman in China. As tea-plants must be four years old elapse before the success of the experiment of growing tea in California can be determined.


## ESMERALDA.

The mining share market in this district, the past week has been quite active, a considerable amount of stock having cbanged hands at advanced figures. The Cortez consolidated and Clan Alpine having been sought after at a slight advance over quotations.

The Geraldine on Silver Hill, south of the Young Winnemuck is down to the depth of about 30 feet; the ledge is four feet wide, and prospects rich in silver, the rock is similar to the Yancy and Seymore on the sams hill.
The Broadiead, on the top of Silver Hill, about 40 yard south of the Young Winnamuck, is a well defined ledge, and from present indications will yield as rich returns as any elaim on that hill, the claim has been but little worked, but the rock is rich in both gold and silver.
The Walrath tannel on the south-west side of Silver Hill below the Antelope is now in, a distance of 260 feet; the tonnel is five feet wide by $61 / 4$ feet in hight. The work is progressing day and night. This tunnel was located early this
Spring and is being prosecuted with more energy than any one in this district. Therein, four ledges have been struck, one of
which, (a blind ledge,) is even 12 feet wide, and assays $\$ 134$ per ton. The stock is mostly owed in San Francisco and sune of it is uffered in this market.

EBMERALDA STOCK LIET

| Mid. Anked | Fsent Bid Ant |
| :---: | :---: |
| Alpina ..... .............. gs $^{10}$ |  |
| A | 1.f.) linlc................. $20{ }^{25}$ |
| Alminte |  |
| Aradt ................. $8^{6}$ | 10.10 Myron............. $=19$ |
| Ansurat Tunari.......... ${ }^{\text {b }}$ | 10. Plan................ - ${ }^{18}$ |
| Amerient Premaun Tui'l. . 7 \% 10 |  |
| Anv-4.0. ..............2000 260 | Mudit. Hill Tumat...... 6 \% |
| Alturas................. - 0 | H.tut Finuwralda, ...., ,ate. - 40 |
|  |  |
| Braz"'................... :0 ${ }^{20}$ | M. hlustry Tunuel C |
|  | Morte christn, Tounel eo. - ${ }^{40}$ |
|  | Nutual .................. - ${ }^{10}$ |
| Bramintiar............ $=$ - ${ }^{\text {s }}$ | M.wnt Braley ............. - - 10 |
|  |  |
| Arewster............... ${ }^{10}{ }^{20}$ | Mimi Kinal .............. 1518 |
| Bullinu (Van Horn Mat.) 3\% 10 | Marliner Tunncl .......... $3{ }^{8}$ |
| Haxtue Bluff. Nu. I ........ 8 8 10 | Merelth.............. - ${ }^{15}$ |
|  | North Willuw Spriug*.... - 80 |
| Hemajarte, Tuasel compl.. - - | - <ewtull. |
| cancusat | Sexat |
| Cumix................ $=11$ | 11z.rh.................. - ${ }^{\text {1.r. }} 20$ |
|  |  |
| Cayn. $\ldots$............... - ${ }_{8}^{6}$ | 1.aut Tunur Co............ $=$ - |
|  | Patios. |
| В4нe, ................... $10{ }^{16}$ | Prilt ol Ankilupic......... 10 10 |
|  | Peru (iwe fi. Thethe efare) - 26 |
| Dink | Pemser wandin Tunuel Co.. ${ }^{8} 10$ |
| nelta | Kenl I4. Mcute. ......... 410 450 |
| East Fesex Ifx. Ural ......- 10 |  |
| Excerlma | $8 \times \cdots$, White a ${ }^{\text {B }}$ |
| *mpire... | Stauford Tunael |
| Franklin, Tuanet rampaby $=10$ | Sclenieetady |
|  | struwuer |
|  |  |
| Falln of clyte.............. $=\frac{8}{8}$ | Syymour .............. 10 |
| Great Fantirri. | st. Lecturs |
| General Hooker ( | Tube |
| Gencral Jnckanh.......... $\overline{-1}$ | Tiger |
| Garidn Har Harvest ........... $={ }_{5}$ | ${ }_{\text {Trunemate }}$............... $={ }_{25}^{15}$ |
| Golden rruss.............. $=10$ |  |
| Goveruor seymour....... - ${ }^{25}$ | Utin ......................- - 120 |
| Golden Age............. - $4^{40}$ | Ural prouler.............. 165 |
|  | Tral [ P xienstur] .......... 6610 |
|  | Wiuld Wment. |
| Нвиечег.................. - 10 | W.athington, Thein |
| Huward Tunnel Co........ - $^{16}$ | Werstera Summit......... - 75 |
| Hearh................... - ${ }^{15}$ | X-ELiza and Comatantuop |
| Rermau Consol .........- - ${ }^{15}$ |  |
| Juulata..................... 10 | Cortes, consolidated..... ${ }^{\text {a }}$ - ${ }^{\text {a }}$ |

[The following letter, dated Sept. 24, 1863, from qur regular Esmeralda correspondent, was intended for our last issue, but did not arrive until after we had gone to press.]
Since I last wrote you there has been no change, to quote, in the stock market of importance. Owning to a compromise about being made between the "Utah" and "Cortez Con" solidated Mining Company," I learn that the Cortez stock is held firm at $\$ 15$ and but little offering.
Sixty shares Clan Alpine were offered to day for $\$ 12, \$ 9$ bid.
The Del Monte and Pond companies on Last Chance Hill are again working their claims with renewed energy. Since Monday last, the Del Monte Company have had 150 men at work taking out rock, which is being crushed at Messrs Starks, Fogus \& Lake's mills; the four mills are running day and night on the Del Monte work.

The Pond Company have about sixty men employed tak0 .ins out rock, which is being crushed at the Uvion Mill.

The rock now being taken out by the two companies is richer than any heretofore crushed in this District, ranging from $\$ 100$ to $\$ 300$ per ton.

Lake \& Minter's mills, on three days run on the Del Monte, cleared up $\$ 1,800$.

The Clan Alpine on Last Chance Eill is still being worked day and night. The work increases in richness as the work progresses. The shaft is down to a depth of about sixty feet, and the company are drifting north and south on the ledge. The last crushing of 40 tons, at Lake's Mill, yielded $\$ 80$ per ton.

The Mina Real Consolidated Mining Company are about letting a contract to run a tunnel, commencing on the west side of Martinez Hill, to be run a distance of 200 feet.
The tunnel will strike the Cash Lode, last Entension of the Juniata and the Mina Real Lode at a depth of about 150 feet. The rock from the Cash Ledge, (consolidated with the Mina Real,) pays $\$ 60$ to $\$ 80$ per ton. The ledge is about 11 feet wide and iucreasing in richness.

Hardening Wood and Pollies.-An exchange says, "Af ter a wooden pully is turned and rubbed smooth, boil it for eight minutes in olive oil, then allow it to dry, and it will ultimately become almest as hard as copper."
Will not such a process prove an effectual check against the possibility of expansion and contraction from the effects of moisture ; and if so, why would it not be useful in application to pick and axe-handles, etc.

Arming Mal Strabiers.-It is announced to be the intention of the Pacific Mail Steamship Company to arm the new steamers which they are about to dispatch to this side. It is the intention to place on board of the ships, ten 20 -pound Parrot guns.

Pateit Clatas.-We will furbish, on application, the claim of any invention that bre bern pateuted within the last fourteen years. The name of the patentec-date of pateut, when known, and two dollars for conying should be scot.

MOnLss.-luvelltors will please attuch to all models sent to uH , their names and address, in a legible, permanent form, this will avoid confusion and prevent errors.

Drawngs. - We have bighly talented and effecent Draughtemen, hy whom drawings of every diseriptions are executed in the best style of art, with promptitude, and at a moderato cost.

## WANTED

By a competent person, the Secretaryship of four Mining Companies. Bouks to be bept at the Office of the Miving and Ecientific Press, No 57 Goverument House. nquire as above.

## AGENTS WANTED.

We want a good Agent in crery city, town and settle-
ment, on this Const. Applicuuts will ceni cheir names will rnference, when splecuaen numbers of the Min Ing \& Scientific Press wil be forwarded to thum, and their names added to our published " List of dgebts.

## PARTNER WANTED,

The Proprietor of one of the oldest and most profitable
country newspapers in the State is desiroun of taking in country newrpapers in the State is desiroun of taking in
a partiler. He wants to dieplose of one-hulf of his office a partiler. He wants to dienise of one-hulf of his office
to some gentlemat well calculaten to take charge of the to some gentlematu well calculaten to take charge of the Eor farther particulars euquire at this ofice

## mINING LAWS AND FORIS

JUST PUBLISHEDDBY H. H. BANCROFT relatiag to Maning Corporitions, Assesments, etc., with digest uf decisimis of the Supremue Court and Furms ror the Ineorporatiou or Gompiuies. Compiled by H. B
Cougdon. 12 mo., Duxible clobh, $\$ 1,50$ For sale at ail
the Bookstores.
sepl4
R. W. MYERS, \& CO., Ohases' New Mill, Fremont St., near Market, JOB TURNLNG \& SCROLL SAWING. BRAOKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturess of every description of Oval, Circular and Square PICTURE \& LOOKING GLASS FRAMES

All kinds of Desings for Huilding. E. W. MYERS.
H. C. SOMES
R. W. FISHBOURNE,

PRACTICAL LITHOGRAPHER,
ENGRAVER AND PRINTER,


 dibpatch. N. B. All orders in Cray on Work promply attended to.

## MINING

N. B. Mining Stock Certificates executed with prom N. B. Mining Stock Certificates executed with promit
ness and dispateh, and at greatly reduced ratea. MYERS \& DAGGETT's
Mining and Stock Exchange No. 233/2 B Street, Virginaa City, N.T.
Mining Stocks of All Kinds Bought \& Sold. Busineas connected with Mining Stocks of every deserip tion promptity and consouentially altended to. *** Abstracts of Tittes Farnished, Ele.

## GENERAL NOTICES



DR. H. AUSTIN, DENTIST,
No. 634 Washington street, Between Montgomery and Kcarny, (over San Francisco BulLus,
I bave recently received from London a Now and Bhich is far superior to any other ever used. It is light deanly and durable, and of a natural used ext and best material for temporary (and in permaneut sets. All operations thoroughly perfor med

## D ESKS

Office Furniture, OF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE,

No. 423 Californta St., San Francisco. office jobbing, of all Kinds, attended to.

## SQUARZA'S PUNCH.

## FIRST PREMIUM

at the sacraniento agricultural state fair
ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862 Mantfactory, wholesale andi/netall,
No. 44 Leidsdorfir street, Opposite the What Cheer House, San Francisco.

CHARLES GEDDES, ARCHITECT,
Cor. Montgomery and Bush Streets, Over the Mercabtile Library Ronms, jy 20

FREDERICK MANSELL, MECHANICAL \& ARCHITECTURAL DRAUGHTSMAN No. $\mathbf{4 2 2}$ California street, cofDer of Leidsdorff Drawings of Modess made foriparties applying for pat
mirs 2 m
nts at Wishivgtou or Louldou.

New Patent Agency
$W^{\text {e Publication of the "Mintig and wiknticic Pkess }}$ The Patent Agency Business,

##  upon us. We have an Experiencell Agent at Waching ton, wh

 years, renders the
## Mining and Scientific Press Agency

 Patent on the Pacific coast. Apply at Offle of the "Mliuing and Scientific Press," Ronn Sansome strects, San Fraucisco. EWER \& SMITH.FOREIGN PATENTS OBTATNED By appliestion at this office, Roum 57 Garwrament House

NOTICE TO INVENTORS.
Inventors wiehting to fle Caveats sbould apply at thin
Ofice, Room No. 57, Government Houss. Terms molierOffice, Room No. 57 , Government House. Terms moden
ETE.

## PATENT RIGHTE.

Patent Rights Bought and Sold, the ofice of the "Wlioing and Scientific Press") Agency
EWER \& SMITH.
JMPORTANT TO INTENTORS.
Inventors who obtain thoir Patents through this office can have their Inventions illustrated and descriled io
 nish cugravings at reasnosable rates. Thines who do no care to g' to the expense of having engravings prepared
can have their inventions fully noticed and described in can collumns, free of charge. The free use of our col
our
umbe to nill them in introducing their inventions to the public will be found a most important aspantage to in rentors. ETER \& SAITE.

Offices To Let,
In the Government House, Coruer or


GENERAL NOTICES.

## HAYNES \& LAWTON

hiporters and dealers in
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Catlery
CLOCKS, Silver Plated and Britania Ware, ETC., ETC., ETc. NO. 516 SANSOME STREET [CORNER OF MERCBANT, ${ }^{3}$ ] san Francisco.

## WHEELER'S Amalgamating and Separating Pans.

It is acknowledged by all who have examined the principles and witnessed the operation of these l'ans, that
they are decidedly superior for trituratiug and amalga they are dendedly superior for trituratiug and amalga-
mating purposes to any other in uso. mating purposes to any other in uso.
The mnst importaut principle connected with the ope
ration of thesc paus is the sceparation of the tritorating process from thet of extractiug the amalgam from the saud. The chief cause if loss of the precinus metals ari ses from the passing of of the same in conubination with
the quiclsslyer, during the proces of trinuration, aud in the quicksilver, daring the proces of trituration, aud in
cleaning up Py the introduction of the Separating Pan
to fow the trituration this loss is entirely arnided. In wroking these manchines there is uo appreciable loss of zuicksilver, und beace nune of the precious metaik.
Where these Prons bave been introduced and operater Wy the side of otbers on sands from the same vat, the
Walls have muforinly gaimed a Iarge perecotage of metals over its comptilors, as well as a still larger parcentage in the amount of work performed.
*** These Pans man be seen in daily operation, at th Hiuer's Foundry, on First street in this city, where a
nterested are invited to call aud exanuine for thomselye 3016-4

ZENAS WHEELER.

## Wm, P, TAAFPEE, IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and sacramemio strects,
San Francisco.

## REIMOVAL.

Officee of the pacific metal Having enlurzed our Works at Sortic Beachl, we ar uow enabled to reduce from 10 to 15 toos of Silver or
Gold rock per day. Gold rock per day.
Gold and Silver in
versmiths' sweepings reduced or purchanell.
CUPPLR UBE-Highest CuPrbR UBLE-Highesi market rates adpanced in cash, for shiproenta S. C. BRADsBAW, dkent, 509 Sacramento strept, near Sansome.

## NATHANIEL GRAT,

 General Furnishing Undertaker, gil sacramento st., Cor. or Webb,
Having refted the above roums the Firm are pow prepared to furuxish the public with a a superior sylye of
Pictare, at a lower price than ever before offercd in the dity.
As we have every racility for produceing these beantiful pictures, in all their difierent varieties, we have re
\$ 3. Per Dozen!
Large sized Phntoorraphs \$3-Extra capies s1 each.
AMBROTYPES in all Styles and prices.
Or.D PICTURES conied with care avd nccuracy, in any chidrent desired. Particular attention paid to pictures o rictures. nainten in (jil or Water Culors, and retouched
in ludiz luk by a competent artost.

International Hotel, Jackson Street, -......- San Francisco
[A few donrs above Montyomery.]
FIRE-PROUF BRICK BUILDING.
Most convensent to tho
OPEN ALL NIGHT
Csis City Railroad Cars Pass the Door REDUOTION IN PRTCES.

Fine Bathing Rnoms attached to the Barher shop Warm aud Cold slower Biths Free to Gaests.
THOROUGHLY RENOVATED AND NEWIY FCR. 1 nishet this apring. Every Room opens to the Light Patent suring bed and Harr maltrespea. The Iuternational offers to guests the greatest number and

Best Furnished Faminy Rooms; sod sers as good a tanle as nny House in the rity, Inm determined that the international shall be the perior to any like establishmellt in the alate, aud shall ainn to merit a contiuuance of the popular favor it has enjoyed beretofure. It will be collducted ou Tcmperiane Principles,
F. E. WEYGANT, Proprietor

## Tremont House, <br> 418 mind $4 x 0$-.... Jackson strect

THIS FINE, FIREPROOF BCILDIVG OFFERS MANY 1 udvantigus to the traveler for convemence. it is ondy hair a blick from the Port ofice and Custing homen
and thout the sume dintance from the privipal places of amuseruent.

The City Railroad Cars pass the Door.
The House is conducted on Temperance Principles
WHICH SECORES TO OUR GUESTS QUIET. The priecs for buard and Ronms are tery moderate-
by the day, meal or week. We solicit a oall from Aik F. E. WEYGANr, Proprietor.

For the acenmmodation of my many gucsts I have takeu and refurnisheil the INTERNATIONAL HOTRL, aud will eary on the wo houses in connection, so that Travelers wishing to put up at eit her house, many take the Tremont
or Interuational Hotel Coach and be liaken to cither liunae with thoir buggage, Free. F. E. WEYGANT.

## THE RAILROAD H O U S E. <br> Nos. 46 and 48 Commercial and Clay Sts. SAN FRANCISCO. <br> h. T. felton <br> PROPRIETORS. <br> The above House is a Fire-proof bailding, with Granite Front, and kept on the European Plan, with bnard and lodging by Day or Week to suit the convenience of our lodging b

The Rooms are handsomely rurnished, upplied with Patent Spring Beds, and Hair Mattrastes, affording very snperior accommodations for families or
The Table is supplied with the best the marketaforde t prices to suit the times.
The Rail Road Hnuse Coach is always in attendabeo as the steamers to convey parsengers and their baggage to le House Free of Charge.

Honec is open all might.

$$
\text { P. M. S. C } 0 .
$$

PACIFIC MAIL STEAMSHIP COMPANY'S road with the steamers of the Atlantic and Yacifl FOR PANAMA.

The following steamshins will be dispatchod in the month of september, 1863
Sept. 13ih, - - - Steamor Orizaba
Sept., 23d, - - Stenmer Golden Age.

Will lesve Folsom Street Wharf, with Passengers and Treasure, for l'anama
AT 9 O'CLUCK, A. M., PUNCTUAJI.Y.
And connect, via Panama Railroad, at Aspinwail, with teanshuyt for Siew York.
For Freight ur passage,
A. B. FORBES, Agent.

FOUNDRIES \& MAUHNE SHUPS.
REYNOLDS
Patent Cat-0ff and Governor, FOK STEAM ENGINES.
197 of these Inviluable Machinen, ARE NUW IN USE
Saving 20 togular merntanent of the Fuel.

## Steen's Improved Governor

## Clark'sEteam and Fire Regulator,

Ingersoll's Patent Drill Press,

## Felt for Steam Boilers, Pipes, Etc..

## Steam Engines, Boilers, Pipes,

Anti Incrustation Powder,
to the iran. In une for tho puxt Eltilli' yeurs
Coltell as Con, An Juse,
H. 'I' S'LEEN AaEnt.

No. 33 Fremul Streut, San Francisco.
MOYNIIIAN \& AITKEN
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts,
San Fruveisco
All kiads of Boiler and Sbect Iron Work exe

## P U M P S !

HARRISON'S
California Lift and Force Pump, without valves or packing, buitable for shiues, Fire Enginen, Wrecking or Irrigat if leated lable to gut out of order, of any Pump yet ic

AIL. SIZES;
hablo of throwing fewn ONE HUNDRED To FIVE
UOUSAND Gallous per Minute-For sale by C. H. HARRISON, Phœenix Oil Works,
6-16 617 Front Street, San Franciseo.

50 lbs . MARARINE and
Fire-Proot Paint, ANUFACTURED By THE Pacthc metallurgicat ing ground Miaeral Rock cultains Arsenic, copper, LL. mithens of Stipe, it is equal to a cont of Stoue, and ose equal to Coppier, no worm
ciper than any other paiut.

## DIRECTIONS

 ir Bultoins of Vessacls, unc one part around sumher , parta dineral laint, milx with Coal 'rar nudapply
io sile by all ship Cluandicra and Tradosmen, in boxu
oiths. ouch, or by the Pacife Metallurgical Works.
gS POUNDS FIRE-PROOE PAINT.
Hen used on Ronfs, Buildings, or Fences, it is equn
t. overing them with a coat of Stune, being perfectly F. Proor, and custing less than uny paliut.

## DIRECTIONS :

WOSE : - Mix three parts Miveral Paint with one part
wite lead, thin with Linseed nil: if a lighter color is Wiede, mir hoss pailite, mnire luad. Li: : - Iix with parto of Minerul Paint, one part white ajte cuat when properly npplied will last liree years. T. Focque, Superintenderit.

WRIS, North Beach; Office, 509 Sac. ramento st., San Francisco.

FOCNDRHES \& MACHINE SHOPS.
PALMER, HANSCOM \& CO.,
GOLDEN BTATE IRON WORKS,
No. 19, Firme Streot, San Frandeco,
Furnish Ciastinga and Machinery of all kinds

Genuiar White Iron Shoer and Dier. palayrr, hanscomb \& Cu.

## To Quartz Miners.

## Kmox's Improved

AMALGAMATINGPAN,

## wIrи

PALMER'S PATENT STEAM CHEST
$T$ he above combination secures the most

 wise lush Mude exclusivily by hianscon \& CO,


The public are informed that Lotters Patent bave buen gramted the undersigliod upols Stcam Chest Falee Bot
iumn fur the intide of Anualkumutug Yuus or Tubs, and


## Jous P. Gallagher.................. Jonsph H. Wkrd. GALLAGHER \& WEED <br> BRASS \& BELL FOUNDERY AND <br> LOCK FACTORY.

Brass and Composition Castings and Finishing, done with neatness and dispatch.
Church and steamboat bells, of all sizes Made to order. Eapineers Gougs nazde and bung Locks, ulso brass Pudlocks and Shop Lucks of yarion NO- Proticulir attention given to castíng Rudder BraAll Jobs promptly attended to,--Prices moderate.

## Miners' Foundry

## MACHINE WORKS

Frrat st, between Howard \& Foloom,
san francisco.
$\mathrm{E}^{\text {VERY DESCRIPTION OF IRON AND BRASS MaCHI }}$ E nery, the Best and shnt Ecounnuszil, mumufictured Steam Eugines Aun Boilers, Flour, Suw and Quartz nill maschiuery, Miuing Pumps, Amalgamatora, hetorts, Particular attention will be given to the manufacture
of Sfachinery in sections, desigued for places or Of Bechinery in sections, designed for places of nifficult
accesh. Varioux mudels of Quartz Crushers, Amalgamaors and Water Wheels-some in operation and on exbi** Parties desiring to, test their ores practicully, in
maill quautities will be afforded ample facilities, free or
All parties desiring accurate and highly finished draw Ings sud Superior MMchinery, ait mosi reasouable rates
are cordially invited to call before contracting elsewhore HowL.AND,
San Francisco, February $28,1863$.

## San Francisco Machine

## IRON WORKS!

Northeast conner Fremont and Mission Streeta,

 mintog purpucest, Wine Presses, Agricultural implement
etc. ecc, and Cialings of all descriplions mado to order REPAIRLNG promptly attonded to. DNSIUORE \& CO. ESM Francisco, July S SALE.
jy13

FOUNDRILS \& MACHINE SHOPS.

VULCAN IRON WORKS COMPANY
P. Torquet, Mnnager,

## STEAM ENGINE BUHDDERS

BOHER MAKERS,
Iron Founders and General Engineors,
No 137 \& $13 y$ Firsi nireet, Smin Franelseo.
Pumplug, Holntling, Maning an uartz-cruablug Suchiuery.
Sluoes and Dles of the hardest Iron,
Russiu irou Puochod Screens.
Stcambent Mnchlucry: : Nuw, Flour und Sugar Mills.
High und Low Presuru Bulters of all styles.
Jusish and uther Turbiue Water Whets with latent


## W. T. \& J. GARRATT,

 City Brass and Bell Founders Cor. Firnt \& Market sta, San Francisco.Babbet metal castings, fire enginhs, force bud Lift Pumps, Clurch nad steamboal bells, Tav:


 rast's Puteut Iuproved Jourual Hetal.

## D. MORRIS,

 MACHINE SHOP,227 Market, corner of Beale Street.

Manufacturer of
ED FIRE-PROOF SAFES
W ARRANTED FIRE-PROOF SAFES

## Repairiag doae at moderate prices.

## LEWIS COFFEY AND RISDON,

 STEAM BUILER AND SHEET IRON The only exclusively Boller Makigg Establishment on the Pacitic coust Owned and couducted by Practira soiler biakers. Al orders ior Now Work, tho repairing to quality.Old Stand, corner Bush and Market Streets Opposite Oriental Hotel, San Francisco, Cal. LEWIS COFFEY
J. N. RISDOA.

「HEODOR KALLENBERG
Maker of Models FOR INVENTORS.
 Stanps, Dleas and Dicasinking, Embossints, etc.;
Repairing of Machinery promptly attended to. Repairing of Machinery promptly attended to.
No. 4i8 Market atreet, San Frameisco.

## HIRAM WRIGHT, pick maiter,

Has established a Sinnufactury for the Making of MINER'S PRCKS,
NO 121 BUSH STREET, SAN FRANCISCO,
[Retween Sansome and Battory,]
Whrerz can be had a superior Piek for Miners use As he inanufacturen all his picks under bis own personal
surpervision, he warrauta them as being made of the beat material and by the best workmauship. Orilers attended to and filted promptly and with dis-
auglich.

## WRIGHT'S PICKS.

JOHN WRIGHT, of Sacramento, bas establisned ham.
deir in San Francisce, for the manufacture or every denciption of PICKS, of the bese material, at reduced prices. Prck Eres or the beat iron furnished in any quan
uity, nt low rates Orders from the country promptly


> my una.

Opposito Baterery, Sna Fradecisec.
CALIFORNIA TOOL WORKS I
John Weichhart,
All Kinds of Edge Tools, Etc.,

No. 22 Fromont strcet, bet Market and Missio
San Francisco, July 14, 1863.

The Rrisutend.-."Cosmos" of Tirginis City, in speaking of the extrourdinary rubl for Reese River, satys:
"Speaking of Reeso River a gentloman who had just come in from there, says he pussed 400 wagons in the distance of 70 uiles, fund as he had an eye to the fuir, he anys there were 72 women in the crowd, rushing onward. Verily the mipratury wave which for so many years has beell moving unward with the cry ot " Westward, ho!" having met the waters of the I'acific, now rebounds in its eagerness for new lands, and Lastward it moves, to till up that uninhabited space which lies between the sierra Nevadas and the westeru limits of the W'estern States.

Camel 'I'rain:-A train of camels is monning from the Humbuldt salt mines to Virginia City, packing salt for the Humboldt salt campany This is found to be a cheap mude of transportation. Each camel is able to pack from 800 to 1,000 pounds. It costs nothing to keep them, as they will fat on sagebush and greasewood, and the deserts which are so hard on horses and mules, are just what cumels thrive on.

Mumificent Banker.- Peabody, the American banker, in London, has signitied a desire to give Yale College one hundred thousand
dullars for a geulogical fund. Although l'ear dullars for a geulogical fund. Although 1'ea-
body does not reside in his native country, he does not altugether neglect or furget it, as may be seen by his may acts of munificence to our public institutions.

Treasurf from the North:-The Steamers from the North are now bringing down large amounts of treasnre every trip. The Brother
Johnathan, wich arrived on Monday, bought $\$ 294,600$. Of this amount $\$ 259,640$ is from Portland.

Eye, Ear and Throat.

## DR. DE CASTRO, <br> Oculist and Aurist,

W York hat ail pre primcipat cities of sur New Work and ant the principat cities of Lurope with such uarivalied suctess, und from cach place is iu posser-
sivin of the moost emiuent test mon ouiali, may how be cunsioh of the mast eminent testimonials, may now be cum-
sulted upon diseases of these deheate urgans, with a viuw roughly currel. The Doctor employs his (by the Diedical
Society uo Loudon upuraved)

## Self-adjusting Artificial Tympanum,

For the relief of deafiess,, atteuded by losk or iujury o the membrana tympani, sind fur he cure of discharge Treatmente" etc. The self-idjusing Artificial Tympanum was first introMedical surity of Lounlou Medial Soviety of Londou, on the 20th of Nuvember,
1863. Au animated disursion ensued on the reading of the paper, atad several mumbers of the socioty bors testi-
muny to the success of the remedy and the importance of
Mr. Baker Brown (member) bore teat imony to the SeffAdjustibg Artificial lymmpanum, as he bar observell the
immente bentit a young ludy iriend of bis had received tron it. She was in fact, quite deaf, and in a mosest mia-
then orable state; the effect of the 15 mpanaum wan inslantaue-ous-quite like a miracle. Five more textimouials frum
Members of the Medical College, New York, and tie priaOperaling Rooms, UNION BLOCK, corner of Market and Kearny streets. EutruDco old Markst strcet.
Mr. Editommaving been aflicted Witt deafuess for the last two years, originating frum a severo cold, and for the fat moar sumed from the down to Sun Franeisco to seck roliof. After a pliysician'
dind recomendatiou to wait on Dr. De Castro, ou the coracer of Kearny and Market streets, and underwent one operation,
anu it is with the utmoat pleasure I cau sty my hearing and it is with the utmoat pleasure 1 can say my hearing
was suddenly and withont pain entirely reatored. I deema it my duty to mabe this known to the bublic, and to recommend Dr. De Castro's okill as un aurist.
JUHN REKSE, Napa Vally.
Jumes Callaghau, witness,
San Francisco, July 30th, 1863
[From the Datly Alta.]

say, that my daughter Mary Ellen, has beon allicled with deafness sinco she was thirten months uld, aud that ato hns been a member of the Deaf and Ilumb Institute since
it was organized. On taking her to Dr. De Castro, on the it was organized. On taking her to Dr. De Castro, on the
corner of Kearney and Market Streets, avd undegoing uncorner diection, two operations, she has herard sounds
der bis disiuctly; and is now, I am happy testate it a fair
very distin way to get permancut relief. The result, thus far, is $\div$ atisfuctory; and I deem this notice due to Dr. De Castro for
bis skill ; and would recommeud all parties similarly gi-
 times been under the care of the most nkilful pbysscians Dr. De Castro, received no beaeft.
CHAS JOHN P. WMGHT,

MINING NOTICES. Wide West Copper Mining Company, Or10,1863 - Nutice is bereby given that an ansesmment of
 ing compauy, and payable immedtately, in U. S Gold
 sep14 M. G. Kimore, Secretary.

Bald Gagle Gold Diniag Company


 T. S. Smith, Supermendent, Grass Valley, Nevals Co. By urder uf the Truslees.
T. L. BIBHINS, Secre

Winoma Gold and Silver Miming Coma pany - hitu 6 rst annual meetitg oi the stwh Luiders of held at the Company's othee, No. 428 Montgonsery street,
for the electon or tive Trustees tor the elseniur ytar, ou


Red Jacket Mining Company -At a meetiug of the Board of' 'rustees of the invore company share on the eapital stock was levitd, payable immenti420 Moutgomery street, Room Nu. 2. By order of th
Board. W CROSLEY, Secrotary, Notice is heveby given that an AssegNotice is heveby siven that an Asses
ment of ten $(, 10)$ couts per sharre ou each and every
share of the Caphial Stock of the Buenam Vista Gold \& Silver Mining Company-Fort Hitt Ludge, l'rince Royal day levied, payabl immediately in U. 2 . gold coin, to
the secretary at No 413 Moutgomery strees, San Fran By order of the Board of Trusteps September 22, 1863,

## Mining Shares For Sale

## 0. A. ORANE

Ofice 28 Government Block.
455 Shares U. S. Miaing Cumpany, Virginia City. 910 Shares Graada Gold and Silver Mining Cumpan 168 Sbares Eroca Consolidated Copper Mining Com pany, Ceescent City, Cal.
20 Shares Mohave Mining Company, Lat Par District Colurado, N. M.
30 Shares Aspinwal! Gold and Silver Mining Compeny r5 Shares Washingtoa Copper Mining Company, India Bar, Tuulumpe Co.
278 Shares Montezuma Gold and Silver Mining Company, Iuyo District, Tulare Co.
90 Shares Owen's County Consolidated Gold and Silver dining Company, Iuyo District, Tulare Co.
50 Shares Crown Point Ravine Gold and Silver Miving pay, Virginia Bio
10 Shares Triunfo Gold and Eilver Mining Company,
San Antonio District, Lower Califoruia,
sep28

## ARMSTONG \& WILDER,

 virginia city, n. t.,SEARCHERS OF RECORDS
for Mining Claims \& Real Estate. RELIABLE ABSTRAOTS guaranteed at reasonable prices. LETTERS OF ENQUIRY
promptly answered.
sep28


MINING CARDS. OWEIV'S MIVER CANAL COMIPANY Capital Stock . ............. $\$ 1,000,000$. 10,000 Shares ........ $\$ 100$ por Share.
 FULL PATD AND UNASSESSABKE
 406 Montgomery steet.

## Treasury.

Eugineer... .................... W. WHGHAM.

TBUSTEH: .......... E. CLAYTON.
City. Wham, formerly of Whaghan's Mill, Nevad
WhLilam Fleming.

Ofnce P. Priti.....................U Nasb \& Fogg
Office of Company 328 Montgcmery stree
arnep

## AIEXANDER STOTT,

MINING SECRETARY 512 Sunsome Street, San Fruncisco.

## Secretary of-

Horss Bnor, Silver and Copper, Alonte Diablo.
DAMIEL WkRitkr, Gold and =ilver, lievil's Gate. Gexsul Jacktos, Gold and silver, bevil's Gate
Figazo, Guld und siiver, Alpize Dintrict.
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montaomery Street
$\mathrm{O}^{\text {Phir silver mining stock, }}$
GOULD \& cURRY MiNing stock,
california steam nayigation cos stock BOUGHT \& SOLD.

## F. MILIER. ...... . ........... W. C.OLEY

MILLER \& COLEY,
Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

Estute Sales Rooms, San Francice \& Co's Real ALL KINDS OF STOCK AND MINING Business attended to with Promptaess aug17 and Dispatch

## L. F. LELAND,

STOCK BROKER, No. 621 Clay atreet,
Offce Hours, 10 to 11, A. M.; $2 / / 4$ to $3 / / 3$, P. M. Member of the San Franciscu Stock and Exchange Board
je-29

PEASE, R.S. CORXING, SAMLC. Bowiex
PEASE, BOWLEY \& CO.,
Real Estate, Stock and Exchange BROKERS,
631 Montgomery street, san Francisco.
Legal Trider Notes and Minina Stocks,
bought \& Sold. BOUGHTH. H . SOLD.
AGENCY
For the Purchase and sale of

## mexican mining stocks


 Cuill inat
the above mines.
$w_{\text {a, Fatlenerg. }}$
New Bedford Copper Company.
$T$ HE ENTERSIGNED HAVING BEEN APPONTED
Ageuts or the: itwore compay, are recei
Sheathing Copper;
Brazrer's Copper;
Coprer Bolits;
Yellow Sheathing Metal;
Copper and Composition Nats;

je-29
e-29

BUSINESS CARDS.
Napoleon Copper Mining Company


## THE EUROPEAN ORE REFINING COMPANY

Quartz Mill and Furnacea, Bryant Street Crossing Third, San Francisco. RECEIVE ALL KINTS OF

## ores and minerals

Io large or m
ment by the
LATES EUROREAN METHODS,

## CAREFUL ANALISIS,

At their works, to be the must Eftectual in obtaining re liable results, add afterwards converting whatceer pre cons Metals they may contain, into marketable Ingots. The South Park, and Folsom und Kearnystreel Ca

## The Pacific Mineral Compnay

## M

Coprer, Sulver, Tris, Nicersh, Cobusis, Znes
Lead, and Sulphurets containing Goid.
Me account tuken of all valuable ruetals combined
with Silver abd Copper Ores, snd advances mado there-
Purties nwning undeveloper mines and desirlug capital praspect the satoe will receive assistance, if, upon ex mination, such feads aro deemed sufficlently vabubble justify such expenditure.

OFFICE, No. 1, ODD FELLOWS' HAIL,
jel-tf Moutgonery Street, SLu Francirico,
MARTIN \& Co.,
OFFICE---824 Montromery Street, Up Stairs, WILL CONTRACT FOR THE
Purchase of Copper Ores
Assayiug 8 per cent and upwards of Corper to the Ton We will make ADVANCES upon Ores of COPPER, TIN and NICKEL.
Sucks will be furnishefi and Frejghts Paid on all con
guments if desired by the cousignors.
Henry Martin,
J. F. Greemman,

Sad Francisco Post Ofic 3, Box 1259.
je 1.
San Antonio Gold and Silver Mines,
FORW ARDING \& MINLNG AGENCY. SAMUEL SMITH,
OFFICE-Nortb West Corner of Front and Chay

Maried, Mhing Claima, secured, Hrongh the nished re.

## H. C. KIBBE, ninivg sechetary,

Commissioner for Nevada Territory 54 Sacrumento st,, cor. Monigomery (Armory hall.)

## BUSINESS CAROS

> SOUTH PARK

Quartz ITill and Redustion Works,
CoLD AND SILVER ORES WORKED AT REASON-
able rates, and Workiug Assuys made of amall

Omce in Shjel'a Block, opposite Masonic Tumple.
jel3

## W. W. HANSCOM,

## Steam and Mechanical Engineer,

 Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Mrchinery, etc., itc.,At Goldes State Iron Worke,
aug $x$
First Street, San Francisco.

## TO MLNING COMIPANIES!

Ofifices To Iet. SUlíes or single rooms in Groverrmment Block, N. T. Cor. of Sunsome auk

El Paso District, Los Angeles Oounty,
MINING AGENCY. C. W. TAPPAN, GENERAL AGENT, "Head Quarters," Mesquit Springs,
 for a reasonable considerathut.
 dressed ellvelope for reply, will be promplly attended to. The subserfiver has a carefully prepared man, (and specimeus, of each lude in the district, a portioul ul
manuy of which are for sale at very low tipures. net, Esa, 425 Davis St, San Francism, Cus. Bur E1 R'aso, June 21, 1863.

## MINING \& SCIENTIFIC PRESS.

THE ONLTMINING, MECHANICAL AND SCIENTIFIC PAPER ON THIS CONTINENT.
THIRD TEAR: VOLUNE VI.-NEW SRRIGA A uew rolame of this extensively circulated pape number shall be replete with information conceruin Minlog, Scientific, Mecbabical and Industrial pursuits together with several original engravings, of new
tions, etc. prepared expressly for ita columas. This paper is deveted to the above purposes, togethes
with the interestsof Science, Arta, Agriculturenud Comwith the interestsof Scienco, Arts, Agriculture nud Com merce, and any general information that may be of in terest to the reader; and it is the intention of the pro prietor to mpare no pains or expense in making it equa
in interent and valuable information to any paper yot published

The Mining Interest!
Will find it of grvat ralue, ns it will contnin all th
news appertaining to Mining, the prices and sales of Mi aing Stocks, new inventions of Machinery adap+ch to thar purpose, and nf everything generally that may be of sor

The Inventor I
Will find it an oxcellent medrum for the purpose o bringiug his invention into notice, of ascertuining thi also of receiring any information that may be neces aary in olbtuining his pateut, the preprietors having hai great experience ax Patent Agenta, together with facl ities at Washington that onable them to obtain Patent

The Mechanic and Manufacturer ! Will be greatly benefitted by ita peruaal, as its co
amns will tron time to time contaln origiual engras ings of new rauchines and inventions, together with large amount of readimg matter appertaining thorets We aro constantly receiving the best scientific jous uals from all quarters, from which we cinall continu
to extract whatever may be of bencfit or interest
To Chemists, Architects and Millorights.
This jourual will be invaluable. All new discoverit in Chemistry will be given, nan a large ammut of infl Will be found in our columns. The Farmers and Pla, ters will nol be neglected, engrarings will bo given , erally will be amply discussed.

## Terms.

To mall aubseribers:-Four hollare per annuma
Club Rates.
Five Copies for Six Montbs, \$8.
Ton Copies for Six Months, 816 ,
Ten Copies for Twolre Months,
Names cau be sent in at different times and fro difrerent Post-offires. Succimen copies will be sen gratis to any part of the country.

d Sansomá streeta, San Francisco.

#  

## REMOVAL.

The Office of the Minino and Scirntific Prras, has been omoved to Rooms Nos. 56 and 57 Government House, corer of Washiagtun and Sansome Streets. We have been hidaced to make this change of location, not only with the fiew of secaring nurre room and better accommodations for arselves, but chiefly to better accommodate persons having ubinese with the office. Oar location is now central, easy f access, and in the direct way of the chief travel of the ity to and from the Post Uffice.

## THE STATE FAIR.

The State Fair, at Sacramento, although not all that could desired, and much inferior to others which have preceeded - was nevertheless quite creditable to the State. Ill health fevented our being able to give it that personal attention hich we should have been pleased to have done. The two three hours we were able to remain in the Pavilion was proted mainly to examining minerals and machinery, and of em only can we speak.
The display of minerals was quite extensive, but the total fak of classification and the unfavorable light in which most them was displayed, rendered any extended or careful ex himation of them quite impossible. The number was very ge, and many of them were very rich. There were out 200 entries, embracing several thousand specimens, inading gold, silver, copper, lead, tin, cinnebar, coal, gypsum, he, soapstone, building stone, sulphur, salt, etc. The sight this department alone, was well worth a visit to the Pa ion.
The district and region of Virginia City, althrough the ad-quarters of mining, was bat poorly represented. We ticed specimens from only the Ophir, Mexican, Savage djazet and Yellow Jacket.
Esmeralda was much better represented. She exhibited d, silver, copper and tin. The tin ore from the Hank from lode attracted considerable attention. Some twenty\& of the principal mines of this district were represented. Gumboldt was represented by samples from fifty o thy of her mines, among which we particularly noticed, te a number in charge of Mr. T. L. Wilson, several o foh-as the Wilson, Ferguson, Wallace, Miami, Monito se and Ophir were beautiful.specimens of bromid, a very val thle and rare ore of silver. Mr. W. also exhibited fin Elcimens of chlorid of silver.
Reese River, was probably the most fully represented of any syle district. The ores of this region were chiefly in charge cMr. G. F. Sember, who had on exhibition, as we under ind, specimens from 180 different claims, collected from a ation of conntry ninety mides north and sixty miles soath cAustin. Among them were quite a number of specimens Q fhloride of silver, which had been subjected to the action Wieat, the effect of which is to condense the silver in little gpules and flakes upon the surface of the ruck. The exbition of these specimens would have been much more usefiland satisfactory, if the exhibitor had placed similar and ndal specimens by the side of those which had been subjsfed to the action of fire. The light, also, in which the
most of the Reese River specimens were placed was extremely unfavorable.

A large number of specimens of gold and silver were on exhibition from various parts of California, some very rich and beautiful, but we were unable to take the necessary notes o particularize them as they deserve, which we much regret. The exhibition of copper ores formed a prominent portion in the mineralogical display. Ores were exhibited from Calaveras, Sacramento, Amador, El Dorado, Placer, Nevada, Shasta, Plumas and Del Norte counties. Some of the ores were very superior and in every variety in which this mineral occurs. We regret our inability to particularize.
No better opportunity is offered to our miners to bring to the attention of persons from various parts, the value and importance of their mines, than such an exhibition as that presented at the State Fair. People from all parts of the State assemble there at that time, to witness and compare the wonderful production of our skill, our soil and our mines. It is to be hoped that the experiment so auspiciously made to connect a mineral with the agricultural exhibition of our State, will be more fully and pefectly carried out an_ other year. More attention should be paid to arranging and and classifying specimens, and much valuable information might also be d ssiminated by a fuller system of labeling, so that persons unacquainted with the peculiarities of minerals might there be able to associate, to a greater or less extent, the name and character of minerals with their appearance. As it was, the exhibition could not be equalled by any other country on the globe.

## machinery.

The exhibition of Varney's Amalgamator, in practical operation attracted consideralble attention-and many were enabled to see for the first time. the operation of amalgamating gold by machinery. We have fully described and illustrated this valuable invention in a former number of the Press. Mr. J. Cammann, also, exhibited a model of a new amalgamator for which letter patent have been applie $f$ through this office. This machine is quite novel in its construction, and works upon an entirely new principle from any hitherto made. We shall soon give a full ullustrated description of this machine.
Mr. Elisha Hughes exhibited his patent Eyeless Screw Pick, which he is ahout introducing to the mining public. This pick has attained a combination of three important priaciples-strength, durability and convenience. It is quite novel in its construction. Mr. H. has made preparation for their manufacture on a large scale, in this city. When his works are fairly under way we shall give a full description of the instrument.
Mr. H. also exhibited a very useful and ingenious blasting apparatus, which be has recently patented. This apparatus will also be fully described in a subsequent nomber. It is something: which should be employed by every miner engaged in any kind of blasting.
Another invention which appeared to attract much interest, was a " tire-upsetter" invequted and exhibited by Ira D. Card, of this city. It is the ne plus u'tra of its kind and must soon come into general use. The patent for this machine was obtained through the Soliciting Agency connected
with this paper. An illustrated description of this machinewill soon be furnished in our columns.

Several other usefal and ingenious machines were exhibited, which we were unable to examine for reasons already stated. San Francisco was fully represented in the mechancal department of the exhipition.

## The Soledad Copper Mines-Los Angeles County.

The rapid development of these mines and the great influx of labor, indicate a prosperity that is almost unparalleled and unsurpassed by any other copper mining region on the Pacific coast. They are situsted about 30 miles from Los A ngeles, in a direct line north-east: By the present circuitous road, through the San Francisco pass, the distance is computed at 60 miles. By making a road across the mountains, to the foot of which there is easy access from Los Angeles, some 30 miles would be lessened, saving of course one half the present expeuse of transportation, etc. The cost of constructing such road is estimated at $\$ 20,000$.
The town of the district is called Rasenna City, and lies in a cañon between the mountains, which run in a direction nearly north and south. The mines are situated on the western slope, the principal ones bearing north.

Copper was first discovered in this region some eight years ago, by a Frenchman named Maris, who, bowever, failed to follow up the advantage of his discovery; and it is only about eighteen months ago, that a mining camp was formed and the district fairly prospected. Since then, remarkable progress has been made.
The climate of this region is very salubrious. Wood is in abundanice at a short distance, and easily obtained. The water is of excellent quallity, and is amply sufficient in quantity for mining purposes the year round.
The ores generally, from this district, exhibit a remarkable degree of purity, being almost entirely free from admixture with baser me als; they consist chiefly of red and black oxides, accompanied in many cases by the gray and yellow sulpharets.
There has lately been discovered a quartz lead in this vicinity, which exhibits very richly in gold. Of this I shall write further as developments are made. Among the principal mines may be mentioned the Maris lead-thia forms a portion of the property of the Soledud Copper Hill Og. A shaft has been sunk to the depth of 95 feet, and the ledge is now over seven feet in width. Grey sulphurets predaminate with a large admixture of gold and silver.
The Jesus Maria lead also belongs to the abore Company and is located in Soledad Hill. A lode of some faur feet in width has been struck. The depth of shaft at present, is about 25 feet, with improving prospects. The prominent ares are gray sulphurets with a considerable portion of silver,
The Marguerita, in the same district is being pushed for ward with great vigor. The present dopth of the shaft is 65 feet, sud it is confidently expected that 35 feet more will give expcellent pay rock; the ores flom the mine are principally the purple or peacock species, nerging into the gray and yellow sulphurets: This lead is undonbtedly one of the largest, richest and thost reliable in the district.
I may reiterate that the general advantages of these mines in purity and jield of precious metale, are unsurpassed by any
region on the Pacific Coast. region on the Pacific Coast.

## [From our Traveling Correspondeut.]

Stockton, Octooner 5, 1863.
$M_{\text {r. }}$ Editor:-In completing my report of the Stockton Fair, I must notice some articles on exhibition unintentional ly omitted in my last letter, but which, as matters of public interest, $\mathrm{I}_{\text {p }}$ promised to mention.
On referring to my notes, I find I made a mistake concerning the buge block of copper ore from the Keystone claim. which I am desirous of correcting. This splendid sample, both as regards its size and quality, lay immediately under those of the Napoleon, when I took my notes; and, being then, without a label, I necesarily concluded that it belonged to their specimens: I trust the Keystone will accept this amende honorable, as it truthfully explains the mistake.
In the horticultural department I omitted to speak of two magnificent samples of cotton, grown in this neighborhood; one on the tulares, the other on what is called the upland. The present condition of America has shown the im:mense importance of raising cotton in California, and these samples, I take it, settles the question. They are admitted by all acquainted with raising cottoi to be equal to any produced by the oldest and best cotton States, both in quantity and quality. If any superiority should be claimed for either sample, it was that frem the tulare ground, the cotton was more silky and fine. What a vast field is thus opened to California enterprise I Such portions of the tulares as are reclaimed, we know, produce the finest vegetables in the world, and now-it is demonstrated that they will produce the best cotton. With this fact before us, surely the Government ought to redouble its efforts to reclaim these millions of idle acres; and make them, what they are capablé of being made, the great cotton fields of the world. The sample from the tulares was raised by Mr. Paige, the other by Mr. Starkweather. The next article of home manufucture, comparing favorably with those imported, was a hox of prunes admirably packed ky West \& Brothers. They laid side by side with the best imported eamples, and it was difficult, if not impossible to tell the difference. , If any thing, the California samples were the larger and more pulpy; All they lacked was the rich glossy black of the foreign article and that every lady knows comes in time.
In speaking of diferent articles sent by the more prominent cities of the State, I omitted to do justice to the Pacific Glass Wdrks of J̇an Francisco. They had every variety of glass present of the highest order of merit. Their exhibition attracted much notice and praise. You will see by the published report, they and our friends, Messrs. Taylor \& Cor, paper manufactures, each took special premiums. Knowing personally, the liberal and generous character of the latter firm, I took the liberty of speaking of them as they deserve, and I sincerely coagratulate them npon the honorable notice their samples of paper received here.
TWith this, closes my account of the prominent articles on exhibition. I am happy to say the Stockton Fair has been entirely successful in every respect. The greatest justice and liberality were shown by the judges, and the fact of being a certain person, or coming from a certain place, was not the basis of their judgement of the merit of articles exhibited. The consequence is, their decisions lave given universal satisfaction, because they are felt to be just. The intire receipts ranged somewhere about $\$ 10,000$, of which $\$ 6,000$ will go to the credit of the Society. At the same time, nothing could be more cordial or polite, than the attentions paid to members of the Press. To Dr. Holden my acknowledgments are especially due. In this gentleman, the Society have a faithful, efficient and attentive officer. During the week, he was the recipient of two silver goblets-one from the members and officers of the society, the other from the attaches of his own establishment. Woll has he earned the distinction. Our paper is also under many obligations to Mr. Barratt, of the Beacon, for assistance rendered in various ways.

The excellent mining interests of this section are receiving proper attention, and large fortunes have been made by different parties: Mr. C. T. Meader, who now subcribes to the Mining and Scientific Press, as all ought who would make mining a successful business, is reputed to be worth over $\$ 1,000,000$-his interest in the Union ledge, the only one, perbaps, in the State having no shares for sale, being esti mated alone at $\$ 600,000$. But of this branch of local wealth I shall speak more fully as I extend my travels. I must, however, here acknowledge the obligations I am under to
a brother of Mr. O. T. Meader, for many civilities in prosecuting my special mission.
Thie ladies declare I must, not omit to say something about the Fair Ball. I beg to assure thein $I$ do notmein to do so, only I told them, I thought you would not publish what I said, as you were " not on the dance." I give you the chance of becoming popular forever; and gettivg all sorts of nice things should you risit these parts. Realy, it was one of the most agreable parties I have attended in the State. The San Francisco system of ladies dressing in bonnets and shawls is tabooed here, and a full dress costume is entorced. This is only just to those who go in full dress, as well as to those giving the ball. 'Taken altogether, the San Joaquin ladies are good-looking, and make a splendid appearance. understand some gentleman, comnected with the Press, intends publishing an account of each dress. That is far more than I dare venture upon. All I shall say is, a'ter careful examina= tion, that on this occasion, the dresses were all appropriate and becoming, generally beautiful, in some cases costly. Ladies I have redeemed my promise, and remain as ever your most obedient servant. Shall I say anything about the icecreams and chickens?
In former years we used to hear so much about abuse in the management-of the insane asylum that I determined to pay it a visit. Whatever it may have been in past years, it is not so now. It would be difficult to find anywhere, a better ordered, more cleanly, and well-arranged establishment The bedding and food were particularly good. But what a mixtare of pleasure and pain it creates to visit this establish-ment-pain at witnessing the sad condition of its iamates pleasure at seeing the efforts made to give them all the ma terial comforts they can eujoy! I confess it was with anything but pleasurable emotions I mingled with this crowd of madmen; but timidity soon gave way to astonishment at the idiosyncracy of eacly case, and the real harmlessness of the men themselves. Here before you are some two hundred men all living in a world of their own, and that world bounded by a single idea, upon which their minds, in this insane condition, eternally dwell, knowing nothing, feeling nothing, seeing nothing but their own particular grievance. The inmates are men of all nations, but nationality is lost in the wreck of mind. The energetic American, the phlegmatic Dutchman, the methodical Englishman, the passionate litalian, the vivar cious Frenchman, the savage Indian, are there before you, but the characteristics of the men are gone. Even in those cases, where they have become quiet and are grouped together in the yard, insanity is the most painfully oppressive sight I ever saw, or hope to see. There you have a large crowd of men in every conceivable and inconceivable attitude, some swinging, some lounging against the walls, some walking, some setting, some kneeling some lying down. You see they are men, but that's all. (Wjth one or two exceptions not a word is spoken. The most deadly silence prevails. Every vestige of sociability is lost. They meet this for months, perhaps for years, but every day meet and part as strangers, for each seems dead to the other, and all to live in their own sad world of one idea. Thas on walking about they never jostle or or touch each other; on setting down, never crowd each other; on taking the swings, they wait until they are unoccupied; they ask nothing from each other, give nothing to each other; take no notice of each other, and as far as I could see, were men only in the cupacity of moving, eating and sleeping. I had previously no idea that insanity destroyed so entirely the social nature of man; and yet, so intensely painful to behold, in other respects it is very fortunate. Were there communion of feeling or sentiment amongst the inmates of an asylum, there would necessarily be concert of action, in evil as well as good, and thus it would be impossible to govern them Apart from the lessons of charity a man learns, the attentions from the officers he receives, and some minor material gratifications he enjoys, taken altogether, a visit to the asylum is by no means a pleasant thing.

And now, sir; I have done; but before I proceed on my journey, permit me once more, to thank the Stocktonians for their civility to me, and to bid them God's-speed in all their undertakings.
L.

Low Whter.-The water in the mines and mining ditches throughout the State is unusually low at this timo. The season is pronounced the dryest one experienced since Califoroia became a State. The signis at present, however, indicate an became a State. The sigas at pres

## [From our Regular Correspondent.]


Mr. Edrtor:- Aeaving promised to drop you a few lines for your valuable paper, I will commence by saying that our mines, the principal source of revenue of this county, continue to yield bountifully. This remarls is not applicable alike to all the different localities, but to be taken in an average sense: Those localities in which the gold yield is dependent solely on the produce of surface ground, have seen, or will ultimately see, their sources refuse to yield the yellowstream; but those favored sections, where deep digging are found, have generally, an undisturbed and long future before them, and fortunately, there are many suctr in this county.
The untiring energy and perseverance of the miner, have as the surface clains become exhausted, developed and opened up; in our various minining districtas, vast subterraneous gold fields, which give renumerative employment to a vast uumber of workmen.
The most perminent among these discoveries is, probably, the region extending from Mokelumne) (All to the Calaverais River, along Chile Gluch, a distance of six miles. Some of the claims opened on this deep channel are among the beat if put the very best in the State. The one owned by Paul, $0^{\prime}$ Neil \& Co., I am informed, nets the sn ug little sum of one thousand dullars per month, to the share, and I believe the adjoining claims, of Lombard, Kit-or-miss and Calaveras, are nearly if not quite as good. All of the wash-dirt takon out of Paul, O'Neal \& Co's and the Calaveras T'unnel Company's claims is crushed before washing, and passes from the battery into sluices, where the gold is collected. This is the only safe way to wash hard cemented, tough or clayey dint, so as to concentrate all your gold in the sluices.

## QUARTZ MINES.

The Quartz Mining interests are duly represented in this county, but not to the same extent as in some other parts of the State. The regions about Augels, and Wdst Point, are the places, where the most renumeretive veińs are worked at present. This branch of mining has not yet recovered from the shock it received in 1851 and 1852. Then every. body owned a quartz mine, and nobody knew how to work one, which is, in a great measure, the case now with copper mines. For this reason, quartz mining became unprofitable, and it has not received that share of attention, which its importance demands; and entitles it to; but it is, nevertheless, ganarally working its way into public favor.
While speaking of quartz; let me inform you that a company in your city has incorporated under the name of the "Leon Loto Gold and Silver Mining Company," for the purpose of working a well known quartz ledge, which is located about ton miles east of here, and which I believe, undar proper management, will yield large returns to the company.

## water and ditches.

As in prospecting and developing the mineral resources of our county, water becomes an indispensible and necessary element, let me inform you, and through you, the Mining public, that a great portion of our county is a complete network of flumes and mining ditches and that water can be obtained at almost any place when meeded for mining par-poses, for about forty cents per inch. We have in the connty 68 mining ditches, with a capaciy of 10,000 inches, united length 583 miles, representing a cash value of $\$ 500,000$.
In my next I will speak of the copper interests of our county.
R.' ${ }^{\prime}$. D .

Captures.-The greatest capture of prisoners of war in modern history, up to the occurence of the present war io our own land, was that made by the first Napoleon at Aus terlitz, where that great conqueror took 20,000 prisoners. Gen. Grant's capture of prisoners, at Vicksburg, was, ir round numbers, 31,000 . Napoleon, at Austerlitz took 151 pieces of artillery. Grant, at Vicksburg, is said to have takel 238. Measure it how we may, the present War of Be bellion, exceedes in dimensions, all which have preceeded it It is the most gigantic conflict that the world ever beheld and the principles and consequence involved are fully com mensurate with the magnitude of the contest.

The Quicksilver mining company at New Almaden hav now 150 men employed in extracting ores, from a depth 500 feet.

## A S S A Y S! <br> Promptness and Accuracy Seoured

by the Ufir of tere Must Inproved Methuds of
ANALTSIS:
Advantageous 'Terns for Prospector's Clubs and Miniug Companies.
J. H. CHURCHLL, M. A,

RIEHN, HEMME \& OO,
ASSAYERA.
Office, Montgomery street, cor. of Oalifornis

## Assays Made of ores, Minerals

 and Metals.
 Cuas. F. RIEHN, late C'. S, Branch 3fit, gise leaghns in


## EXCELSIOR IRON WORKS, <br> r18 Sunsome street,

Botween Juckkun and Pheifico, sin Franclisco.
GALLAGIER \& KENNEY,
Manufacturers of all kinda of
Architectural and Ornamental Yron Work,

Eito, and all klads of Blacksmonthing and ot Job
bing done with promprniss, and at Reasonable Prices,
Ofderatrom the country promutly attended to.

WILLTAM BRODIE \& CO.,

## CALIFORNIA FOUNDRY,

Light and Heavy Castings,
 Giffards Injectors,

 Send for a Circular.
jez2 Cor. Pine and Front Sts ${ }_{11}$ Sud Francisco.

## PATRONIZE home manuracturies!!!

James Longshore, Trunk and Valise Manufacturer, 307 Sansomo sreet, under Tehama Hunse. Trunks and
Valises, Wholesule aud Retail, Eme sule Lemether Trunks, Yalises, Wholesule aid Retail, Fue sule Leather Trunks
Yalises, and a fine assortment of LADLES' ${ }^{\text {GRUNKS con }}$ stumly nu hand. Trunks covared and repaired. aug $X$

## New Style of Ladies' Buokle!

W. BOHM,

Inventor and Patentee.
$T$ Tie subscriner having obtangaletrers pat
 nise the same in cerfy vartecy of rivile This inckie
Thit iovecition having beenc arrefulty gxamined at the Patent Offec, has been adjudged to be a uselul improve ment, and Letters Patent have been granted for 17 year

Usefulness, Streurth
Usefulncss, Strength and Appeaxance. The Public is respectfully Iuvited to call aud exami
thls Buckle at the Jewelry Establishment of BRAVERMAN \& LEVY,
621 Washington Sitreet, San Francisco
607 Montgomery Streeet, SAO Francisco FLOBERG \& CONRAD, 118 I Street, Sacramento.
Every Buckle sold, stamped "W. Bohm
guaranteed as to its Sttength and Durability,
$\begin{aligned} & \text { jy } 27\end{aligned}$
W. BoHM, Patentce.

## APARTIENTS.

 Washinglion street. Perrons desirous of a respectayble
home will do
well to to

## THE

BRYAN BATTERY.

The prast intarmat Involved in the reduction of aren on

1 glas heralely ahid that Mation

 Stamp kat cory

## ALONE STANDING THE TEST.

Thts, with the Improvements which Fxperienco has smgeritell, in oow regarded, by cominou couseut, us th
only ruliable

## METHOD OF CRUSHING ORE.

Tare Fibyan Batmery, an now conatructed, is umlievod of combtue ull the improvemphts wheth the experier c

## EXCLUSIVELY ADOPTED

by many of the mast prominnent sining Compantes in the country, sud buve been, for the tiree pant years, sub-
jected to tha munt severe uf all tests-lhat of coustant jucted in thin muxt severe of all tests-lint of
isc-and in evury ease have been prouounced

Effective, Substantlal and Reliable.
They arn now extenstrely used throughont the mineral reginus of Catifornin, Nevada nud dexico, and
have establishmit a cham to public confidenco, nover yet equalled ia any plece of miniog machinery.
These Mills aro constructed almont entirely of Iron, and drymes of atmonpbore, commod to all mining loca tied. They are adaprod

## BOTE WET AND DRY CRUSHING,

and are warranted to reduce, with the same weight of Stamps, 25 per cept, more rnck than any other min in
use. Each Battory is complete in itself, and forms a
perfuct inll?-while any number of them can be added perfect inll'-while any wumber of them can be added
at $n$ subeqent time-thus preserving the symotry and at a subreqent time-
anilormity of the Mill

Asan evidence of the increasing favor with which these mink aro recardes, wo annif moncion that the their works in 1830 , and have been adding $n$ number of Batteries, each subsequent ycar, until
Ninctoen, ruaning Seventy-six Siamps,

They are perfectly fitterl and set up at our Works, beore shipping, cach piece being marked and numbered
80 that they can be put up and set at work in ten honrs Bo that they can be put up and set at work in tea honrs
after ariving on the ground. They are made of tro si-
zes, cour and five stimplis each. The Four Stamp Battery weightug complote about 8,000 pounds,
and the Fivo Stamn about 7,000 . The Mortar Bud veing nod the fivo Stampabnut 7,000 . The Mortar Bod being
cast in scetious, when desirod, sn that the mills can be packed over any mountain rosd.

Wo annex the names of 4 fow tell known Companies
who bave adopted them-running from four to seventyite stamps each-to whom reference is made

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co., Virgitia City, Tajo Mining Co. ${ }^{\text {² }}$ Mexico, Sheba Mining Co.. Humboltd. Lotta Mills Co., Coso. Aan Carlos Mining Co.,. Owen's River Union Quartz Co., Aurora, Triunfo Mining Co., Mexico Napa Quartz Co., Aurora, Petalama Quariz Co., Gold Hill, Francis Mellus \& Co., Slate Range W. R. Churebill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smith \& Clouser, S. F. Rednction Works Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY GODDARD \& CO., At the Pacific Iron Works, SAN FRANCISCO.
I. C. E. KLEPZIG \& CO.

GUN MAKERS,
dealers in gun materials,
233 Washingeon street, San Erancisco [Uhe bour abute Kcarmey sirsel.]
Repalring done in a workmanlike manner at the sho Gidulug, and also Sllver Plutiog, by E Ekland. Je21

## WANTED,

$\mathrm{G}^{\text {old }}$ Quartz suitablefor
CUTIING JEWELRY,
by fromtier a. deviercy,
anst

$$
437 \text { Pine atreet, San Fruncisen. }
$$

John R. Sinas,


Oregon atreet, between Washington andl Davis aud Fron $\mathrm{M}^{0}$ anufacturers or Fire Proor Doorg and Tiges- All ordurs from the Interinr Uregon, Wanhingtoa crritory, Vancouver's Inland, Britisle Culumba, or any
place ou tbe Pacific coast, atteoded to with promptuess place ou tbe ?

Mr. Sims Appreciates the Past liberal patronage of his friends, and trusts that be $m$ For the Informition
he would say that he feols of strangers ence in his particular calling is surpassed by none o this coast, which his superior work, sent to almost eve-
ry town in this state, Oregon, also Victoria and the Sandry town in this state, Oregun, also Victoria and the Sand-
wich IElands, and to be scen on rome of the best build ings in San Francisco, fully attesta. A large assortmen

## LEANDER RANSOM,

 Civil Engineer and
## SURVEYOR,

Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. ALSO
state locating agent.
And as such having the sele of
600,000 AORES OF STATE SCHOOL LaNDS,

## At the low price of $\$ 1,25$ per Acre.

Terms-Twenty per cent in eash and the balance OFFICE, 328 Montgomery streets.

## D. NORCROSS,

Masonic Tcmple, No. $G$, Post strect.
Military Gcods of all Descriptions.
Navy Trimmings and Embroideries.
Regalia for all orders.
FOR SALE.
Patent prissem russia iron maning pans,

Portable Forges ; Cauldron Kellics ;
Iend Pipe ; Ruluber Hoso ;



 Copper Rivels and Burrs ; ;rozo Rivots; Ete.
We are also manuffacturers of thio
UNEQUALLED
MONITOR COOKING STOVE Or RANGE, For Hotels.

Tere Pacifio Monthix. - This valuable magazine, for Octuher, has been haid upon our table. In a late number of Harper's, the Editor of that magazine advises his readers to patrunize home papers. So say we of the Pacific-patrunize it.
Nrw Ofpicr.-Messrs. R. N. Berty \& Co. look well and comfortuble in their new office on Muntgomery street. The room las been fitted up expressly for their use, and is the largest and most coumodious looking office it the eity.

The Acorn Crop is very abundant this season, much to the delight of Diggers and porkers.

## G. E. MOORE,

## Assayer and Analytical Chemist,

No. 6ia Sacramento steet,
 Cal wurks, is preparen! to excequet the Asmay and Abaly sis of Ores, Miue
and dispitich.

## referencrs : <br> Ther. J J. Whithay, state Geologist, San Francisco.

Alsnpt Eo, Sum Francleco.
Jobo Purrolt, sinn Erancisco.
oban Parrolt, sun Francisco

## PEOPLE'S

OPPOSITION
Steamship Line!
Special Notice.-The Stermere "his hine have been withirawn from the

GREAT REDUCTION IN RATES!!!
The Fast and Favorite Double Engine Stenmship,
MOSES TAYLOR, J. H. Beethen................ Commandee Will be dispatdh for PANAMA
From Mission street Wharf. 1863 SATURDAY, - - OCTOBER Connecting at Aspinwail, by the Panama Railroad, with the Splendid Steamship

## theinors

2500 Tons.
The Moses Taylor, since her last trip has undergone the most extensive repairs. Her dects have been extended forwará and aft ; cabins calarged, repainted througboul-makiag
to any steamer on the ocean
For further information or Paseape, apply to For further information or Paseage, apply to
I. K. RoBERTS, Agent,
No. 407 Washington Street, $\begin{aligned} & \text { San Francisco, } \\ & \text { Opposite the Post Office. }\end{aligned}$

## BOOK KEEPING, Penmanship <br> OOMMEROIAL OALOULATIONS, Taught by J. S. LUTY <br> PRACTICAL ACCOUNTANT, <br> 305 Montgomery street, Conner of Pine.

## TO QUARTZ IIINERS.

A 11 persons interested in Mining Man examive ny improved Amalgamator. It is urquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 mounds at a time, and will amalgamate over three tons a day. By the motion
of the revolving muller, the pulp is drawa through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again ovar the muller to the centre, through the liolca and between the grinding surface to the circumforence as before. Thus a constant circulation of the pulp is kept ap, bringing the particles of oro and reducing the whole mass to an imvalpable
powder.
No quicksilver lies between the surfaces to be ground, out at the circumfercpesendic cotre of the pan where tho metal must pass through it es the pulp circulates. cember last, and all persons nre again warmed agamst


mators can be senem rut ing nt Denahuc's Fourcty, where
all can judge of then operation and the very superior style in which they are being manufartured.
sep21
THOMAS VARNEY.

## REESE RIVER CORRESPONDENCE.

Austin, Seft. 29, 1863.
Ed. Mining and Scientific Press:-I have just got up
from the universal mountain-fever, and have lad but little time to look around me for facts, the signal feature in your enterprising journal, but such as I have, I give unto you.
I think you have already a just appreciation of the vast mineral resoarces of this district, and perhaps it would be superfluous to repeat thein.
The rush here, is beyond precedent, and the cry is, "still they come." The accommodations do not keep pace with the demand, and many are compelled to take such quarters as would only do honor to a sheep-fold. Buildings are going up, such as they are, on every hand. We are sadly deficient in building material. All our lumber is brought from Carson, 180 miles westward, and readily sells for $\$ 300$ per thousand feet. Adobe bricks, made on the ground, sell at $\$ 13$ per thousand, and constitute the cheapest building material we have, but in the long run, may prove the most ex pensive. We have plenty of wood for fuel purposes, sufficient to last for some years. Stofe buildings are going up as fast as workmen can be found to raise them. Teams are crowding in, loaded with merchandise, provisions and lumber, but if the rush continues unabated, we shall look for a scarcity before Spring.

I have made some personal examinations of the mines, and pronounce the ledges innumerable and exceedingls rich. So far as I have examined, the ledges are narrow but invariably improve as the depth increases.

I have seen a number, back of Austin, and the maxinum do not exceed five feet. The Enterprise is down five feet, Toro 15 feet, Roderick 30 feet, Rough Diamond 10 feet; all about the same quality of rock, ledges narrow, but expected to improve as developed. Garibaldi; quartz one inch thick, but enclosed with good thick casing and $p$ omises well. Die Vernon Ledge is good, three feet wide. Depth of incline 58 feet. Morgan \& Muncey, in the same locality, is down 100 feet. Ledge only eight inches but rich. Ethan Allentunnel 100 feet. Ledge, 18 inches wide, with good lookirg 'quartz now stripping the ledge. Manhattan Company's incline is down 30 feet-ledge from four to eight inches of good rock. They have sarted anotier tunnel, further duwn the hill, and have gone in 16 feet. Oregon, near the latter, is down an incline 160 feet, and bave reached water. The rock looks rich, with a similar cast as the Savage. Virginia. I was much pleased with this mine, as the work is going on well. They use a flume. It is said, the Manhattan Company claim this ledge. Whether they hare any just claim or not, I am unable to say. Southern Light is working an incline-ledge three feet wide. Sarage Company has a shaft 45 feet in depth. Their ledge is three feet wide, containing grood rock.
In the cañon, between Clifton and Austin, there are four five-stamp mills in active operation, but defice it in pans. Two more ten-stamp mills are going up-machinery on the ground. The expenses here are enormons. Let him who expects to visit this country, calculate to pay four prices for everything he orders, and bring along a surplus of the "need ful," for ten to one, he will have use for it.
There is a good deal of sickness here, principally of the mountain fever type, which is manageable if taken in time. Meet it with a slrong will and plenty of blue mass and you will be all right in a few days, at least, sach was my experiance.
Ocr. 22:-I visited the Yankee Blade district, located in a north-westerly direction from this place, about three miles distant. Of this noted ledge, I regret that I was unable to reaci the best rock, now under water, but I saw some taken from the bottom of the incline, which is 75 feet deep, and it corresponded with a lot of fifty tons, now at Brook's Mill, undergoing the process of crushing, and I was informed by Mr. Brooks, himself, that it yielded $\$ 200$ per ton, About 12 feet from the water, they bave commenced drifting with the ledge which is a perfectly decomposed quartz; said to be rich, bat quite limited in width. The two ledges in the incline are but a few inches apart ; said to have unit d below the water, forming a ledge six feet wide. If that is the case, their pro-pects are higbly flattering. The propects of this mine, have induced handreds of adventurers to try their luck in that locality, and many are elated with the results; but how many on the other hand are disappointed, is best known
to themselves. It is seldom a man blows from the big end of the trumpet; and the public to know the facts, must wait until they are revealed by time.
The Whitlach Company has made the first extension south and are down 12 feet.
Cicero Company have an incline thirty feet down, and are taking out good looking rock. I could not go down on account of the blasting, therefore I cannot give the width of the ledge. The claim is held at $\$ 75$ per foot, but I presume the most obstinate holder, would yield to less seductive in fluences then these figures might offer, as man is frail, and gold is a great tempter.

Bunker Fill, said to be held by the Yankee Blade Company, is down 12 feet; ledge 20 inches wide-work suspended The rock is about the average.

Seely Co., Pizaro ledge, down fifteen feet. Ledge five feet wide.
Golconda Tunnel Company, in San Francisco cañon, have their tunnel in 50 feet-work suspeuded. San Francisco canon is about three-quarters of a mile from the Yankee Blade, in a northerly direction.
Ruby Company, located near by, has sunk an iucline 50 feet, and reached water. As far down as I could go, I fouvd the ledge 3 feet wide. I saw some splendid rock taken from below water-line. I understand this Company is being incorporated.
"Vidi."

## THE NORTHERN MINES-NEW DISCOVERIES.

The Dalles (Oregon) Mountaineer states that the mines east of the Cascades are now sending to the market of the world an aggregate of $\$ 1,000,000$ monthly, or $\$ 12,000,000$ per annum. This statement is probably sumewhat exager rated, altbough the past year has witnessed a large increase of treasure shipments from that quarter, and indications are that we may look for still further improvements in that direction. New and rich diggings are cluimed to have been discovered in upper Oregon, and a party of miners, headed by the discoverer, started a few weeks ago for a more thorough prospect. The mines are known as "Sinker Creek." With regard to these mines, the Dallas Mountameer gives the foluwing :
A tradition has been current for years that some lost immigracts, in 1845 , whilst wandering through the country drained by the Malheur, discovered mines where gold could be raked up by the shovel-full. At the time the discoverers were ignorant of the charact ristics of goid in its native state, and accordingly they passed on, regarding the metal as wurthless. A few years later, sume of these men were attracted to California, and on visitiug the mines there, almost their tirst remark was that they "knew where bushels of that kind of stuff was to be had." since that date scarce a year has passed that did not witness the departure of companies
of men who went out for the purpusa of discovering the of men who went out for the purpusu of discovering the country described by the iminigrants. These expluring par-
ties have uniformly proved fail res. owing, in a great useasure ties have uniformly prored fail rres.owing, in a great useasure to the hostility of the Indians, who have resolutely refused to allow the white man to prospect their country. At la-t however a party more fortunate than the rest have sncceeded in finding the long lost gold field, and if reports are to be believed, the story of its richness has not been exaggerated by the original discoverers. The "prospects" show that the immigrant boy was not particularly out of the way when he used a piece of native gold as a sinkry, in a country where the treasure is so plentiful that it meets the eye at every turn. Connected as this new discovery is with a tradition that has been current so long, it is not strange that is has been the occasion of great excitement.

## THE MINING SHARE MAREET.

The Mining Share Market during the last two weeks has met with material improvement, both in amount of business transacted and in the rate of shares. The Burning Moscow and Santiago have absorbed the largest amount of attention during the past week, for reasons which are fully given under their appropriate heads.
Ophir has slightly declined. The directors declared a dividend on the 6 th. inst., of $\$ 48$ per foot. This stock has been unusually active for the past two weeks, having been cheifly taken on foreign account. To meet this new condition, which has been in gradual progress for some months, the Company has made arrangements, whereby its dividends will be paid in New York, by Eugene Kelly \& Co., No 36 Wall street, the same day as at the Company's office in San Francisco.

Gould \& Curry has declined $\$ 50$, with small sales, though freely offered. During the past ten months this Company
has divided $\$ 1,350,000$ among its stockholders, egnal to $\$ 1 .-$ 022 per foot: in addition to which, besides paying enrrent expenses, the Company has made extensive and costly inprovements both at their mine and mill.
The Central still remains inactive-buyers $\$ 2,200$, holders $\$ 2,400$. It is reported that the Company has recently struck a ledge in their main shalt eleven feet in width.
Chollar which clossed the week previous at $\$ 900$, b. 30 , advanced during the past week to $\$ 1,050$, but finally closen at $\$ 980$.

Potosi has been enquired for at an advance of $\$ 100$ over the week previous without finding sellers. This C'ompany has recently struck very fine ore, the best ever found in the mine. We presume, from the firmness of holders, it is found continuous.
Hale \& Norcross has found buyers at $\$ 200$ over offers of the previous week. This Company is making extensive improvements at the mine, which when completed, uill make it second to nove in facilities for raising large quantities of

Imperial and Overman have each advanced somewhat with light sales.
Sierra Nevada has been but little dealt in; opening at $\$ 100$, closing at $\$ 95$. The hoistiag works of this mine were started about ten days since- The Company has done a vast amount of work within the past ten weeks.
Dany has slightly advanced, with considerble basiness. A new 80 horse power engine arrived at the mine, on the 30th. ult., to be used for boisting and pumping.

Burning Moscow has been the chief speculative attraction of the week and has been largely dealt in. Sales of 701 shares are reported. Opening at $\$ 155$, it fell $\$ 164$. Accounts of a bigbly flattering nature having been received from the mine, it suddenly advanced to $\$ 310$ on 30 days. The ores now being taken out are said to be beyond the disputed ground, and it is anticipated that the company, with present prospects, will be able to remit $\$ 25,000$ weekly.

North American has suddenly become unusually active Sales of 704 shares-one eighth of the mine-are reported the past week, at a somewhat fluctuating adrance from $\$ 621 / 2$ @ \$71, closing at the latter figure with a heavy market.

Buckeye has met with a large demand, at fluctuating rates. closing at an adrance of $\$ 4$ over last quotations.
North Potosi is again in considerable favor with large transactions.
Baltic advanced $\$ 10$ with large transactions.
Sacramento has been dull at $\$ 60$. This mine has been consolidated with the Meredith and will hercaiter be known as the Sacramento \& Meredith.
Spanish No. 2, has been in request at $\$ 45$, on 30 days. Santiago stock shortly since was considered a very good urestment at $\$ 175$ per foot, has fallen to $\$ 15$. Sanborn \& Co's Circular af Snturday, in alluding to this mine, says:-
"The higb price was based upon the returns from the mill of over 600 tons of ore, which yielded, on an average, $\$ 40$ per ton (as good as Gold Hill). [?] This ore, the Superin tendent represented as being the ave rage of the ledge. Upon this the price advanced to $\$ 175$; and one of the Trustees, an intimate friend of the Superintendent, and who held a large interest, sold out ncarly all his stock to first class operators. Later runs at several mills, only produced $\$ 13$ @ $\$ 17$ per ton. Hence the cave-in in prices; no more of the $\$ 40$ ore being forthcoming."
We refer to our usual quotations and sales of the week.
Esmeralda.-Wide West has advanced from $\$ 67$ to $\$ 75$ in this city, with considerable demand. This Company is now running its mill on Real del Monte rock; meantime work is going on at the mine, preparatory to further facilities for getting out ore.
Pond is not quoted-there being no stock in the market. The company is actively engaged in operations at the mine, 80 men being there employed. They bave now three mills employed crushing their ore-the Brodie, Enion and Gregory's mill. Sixty-five tons of ore from the ground in dispute between this company and the Del Monte recently crushed at Winter's mill yielded $1,140 \mathrm{oz}$. amalgam, worth 88,464 . One handred tons at the Brodie yielded 2,500 ounces.

## COPPER.

The copper interest manifests no abatement. Notwith standing the fact that we have as set but one dividend paying copper mine, (the Union,) within the State, and that an unincorporated company, there is, nevertheless, no lack of confidence in the success of many of the leadiug mines now in


Firemen Attention! In our advertising columns will be found a card for Mr. J. D. P. Wilkins, of Stockton, the celebrated harness maker. Mr. W's hose, has long been used by the Fire Companies of San Francisco, and we believe, gives entire satisfaction. There is no doubt, it is a very superior article; and, we cordially recommend it to our numerous friends of the Fire Brigade of this city.

Patent Clanms.-We will furuish, on application, the olnim of ang invention that has bewn pateuted within the last fourteen years. The name of the patentee-date of patent, when known, and two dollars for copying should be sent.

Moduss.-lurentors will please attach to all models sent to us, their names and address, in a legible, permanent form, this will evoid confusiou and prevent errors.

Drawiags.-We have bighly talented and efficient Draughtsmen, by whom drawings of every discriptions are axecuted in the best stylo of arl, with promptitude abd at a moderate cost.

## WANTED

-By a competent persou, the Secretaryship of fuar Mining Companies. Buaks to be kept at the Office of the Mining and Scienti6c Press, No 57 Government House. i nquire as above. oct5

## AGENTS WANTED.

Wo want a good Agent in every city, town and settle ment, on this Coait. Applicants wali, aeni thoir parmes with reference, when specimen numbers of the Mina and their uames added to our published "List of Aqents.
EWkR \& SNITH.

## PARTNER WANTED.

The Proprietor of une of the ellesest aud most proftable
country pewspapers in tic Slate is desirous of taliog in country newspapers in the state is desirous of taking in
a purtuer. Be wants to dispose of one-half or his ufice to sume gentlerasa well calculaten to tabe churge of the
editorial department, as he is a practical printer himself For furthicr particulars cuquire at this office.

## IILNING LAWN AND FORIIS

JUST PUBLISHEDEY H. H. BANCROFT relating to Duping Corporations, Assusments, ete., with digest of decisios of the Supreme Court and Fcrms for
the Incorporation of $\mathbf{C o m p a n i e s . ~ C o m p i l e d ~ b y ~ H . ~ B . ~}$ the Bookstores.

## R. W. MYERS, \& CO.,

Ohases' New Mill, Fremont St, near Market,
JOB TURNIVG \& SCROLL SAWING BRACKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS for Stairs.

Manufacturers of every description of Oval, Circular and Square
PIOTURE \& LOOKTING GLASS FRAMES For the Trade at New York Prices.
All kinds of Desings for Building. R. W. MYERS. H. C. SOMES

## R. W. FISHBOURNE,

## PRACTICAL LITHOGRAPHER,

 ENGRAVER AND PRIN'TER,

 Chects. Landscapes, Arctititectural and Marine Views
Show Cards, Labels, Etc, executed with neatness kud Show Cards, Labels, Etc, execuled with neatness gua
dispatch. N. B. All orders in Crayon Work prompuy aittended to.

## MINING.

N. B. Mining Stock Certificates executed with promt
hess and dispatch, and at greatly reduced rates

## MXERS DAGGETT'S

Mining and Stock Exchange, No. $2333_{2}$ B street, Firgina City, N. T.
Mining Stocks of All Kinds Bought \& Sold.
Business connected with Mining Stncks ot erery descriphoa promptly anc confideatially attended to

## GENERAL NOTICES

## DR. H. AUSTIN,

DENTIST,

## No. 634 Washington street,

Between Moatgomery and Kearny,
I have reently received from London a New aud
Besutiful Vulc inite (Iudia Rubber) for Artifcial Teeth, which is far superior to aus ubber) for Artificial Teeth,
 est and best material for temporary (and in many cases)
permancut suts. All oporations thoroughly jerformed and st rcasonable prices.

## D E S K S

Office Furniture,
UF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE;

No. 423 Caltpornia St., San Francisco. OFFICE JOBBING, of sll Kidds, attended to.

## SQUARZA'S PUNCH.

FIRST PREMIUM t the sacramento agricoltural. state fair

## ALSO; FIRST PRETUUM

At the Sad Francisco Bay Distriet Agrieultural Fair, 1862 mantractort, wholesale and liketal,
No. 44 Leidsdorfr street,
Opposite the What Cheer House, San Francisco.

## CHARLES GEDDES, ARCHITECT,

Cor. Montgomery and Bush Streets,
Orer the Mercantile Library Ronms,
jy 20
San Francirco
FREDERICK MANSELL
MECHANICAL \& ARCHMTECTURAL DRA UGHTSMAN
No. 432 California sureet, corver of Leidsdorff
Drawings of Modets made forparties applying for pat
ents at Waskingtou or Landon. mar 23 gin
New Patent Agency.
 The Patent Agency Business, And would invite Inventers aud Discoverers on the Pa-
cifce const, who wish Dispatch as wull as Economv to call upon us , We have an Expericnced Agent at Washing ton, which, together with our nwo experieace of severa years, renders the Sining and Scicntific Press Agency The most deirable place to make application for Letter
Patent on the Pacifc const. Apply at Office of the "Mtining and Scirntific Press," Room No. 57, Government House, corner of Washiagton and
Sansome atreets, Ean Fraucisco. EWER \& SMITH.

FOREIGN PATENTS OBTAINED By spplication at this office, Ronm 57 Gorernment House
EWER \& SMITH, solicitors.

NOTICE TO INVENTORS. Inventors wisbing to fle Caveats should apply at this
Office, Room No. 67, Government House. Terms moder Office, Room No. 57 , Government House. Terms moder
EWER \& SMITH.

PATENT RIGHTS.
Patent Fights Boaght and Sold, the office of the "Mining and Scientific Prens" Aycney
EWER \& SMITH.

TMPORTANT TO INVENTOHS.
Iuventors who obtain their Patents through this office can have their lnventions illustrated and described iu
the calumns of this paper Frese of charge they merel the columns of this paper Frre of charge, they merely
furaishing the engravings. We are alco prepared to furnish engravings at reasonable rates. Thnse who do do care to gu to the exnense of having cngravings prepared
can hare therr inventions fully nnticed and described in can hare their inrentinos fully nnticed and described it
onr columns, free of charge. The free use of our col ourns to aill them in introducing their inventions to the public will be found a most important adyantage to in public whil
ventors. EWER \& SMITH.

Offices To Let, Th the Governnient House, Corner of
Tashington and samsom Strets. Two large suits of Offices, the most commodious and areessible in the city.
C. A. CRANE, Proprietor

GENERAL NOTICEN.

## HAYNES \& LAWTON,

IMPORTERS AND DEALERS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Catlery
CLOCKS,
Silver Plated and Britania Ware,
ETC., mTC., mTc.
NO. 516 SANSOME STREET
[CORNER OF MERCHANT,]
San Francisco.

## WHEELER'S <br> Amalgamating and Separating Pans.

It is acknowledged by all who hare examined tho prin ciples and wituesaed the operation of these Tans, that
they are decidedly superior for trituratiug and amalgawating purposes to ady otber in use.
The mnst important principle connocted with the operation of these Paus is the separation of the triturating
process from th. tof excractivg the amalram from the process from th. the exief ciusc of luss of the precious metals ari-
sand.
The ses from the passing off of the same in combination with
the quicksilver, during the proces of trituration, aud in clenning up By the introduction of the separating laan to $f$ llow the trituratiou this loss is entirely araided. In
workiug these machines there is no Working these maschibes there is no arpreciable loss
puicksilver, and lience none of the precivus metais.

Where these l'ans hare been introduced and operated Wheeler thaus havo un sinorms from the same vat, the Wheeler Paus bavo uniformly gaiued a Iarge percentage parcentage in the amount of work werformed. ** These Pans man be scen in duily operation, at the Miner's Foundry, on First street in lins city, where al 2016-tf ZENAS WHEELER.

## Wm. P. TAAFFEE, importer and jobber of

Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francisco.

OFFICE OF THE PACIFIC METAL Having eulsrged our Works at North Beach, we are
now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayer versmiths' sweepings reduced or purchased.
COPPER OBE COPPER OBE-Highest markn rates advanced in
S. C. BRADEFMAW

509 Sacrameuto street, near Sausome.
NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. of Webb,

## D. S. mytcransox

## METCALF \& HOTOHINSON'S

PHOTOGRAPHIC GALLERY
650 Washington st. Three doors below

Haring refited tho above rooms the Firm aro Dow prepared to furnish the public with a superjor style of
Picture, at a lower price than ever before offered in the city. CARD PECTURES. Aswe havo every facility for producing these beauti al pietures, in all their different valeties, we have r

## \$3. Per Dozen!

Large sized Photographs \$3-Extra copies $\$ 1$ each
AMBROTYPES in all Styles and prices.
 ciluser Pictures painted in Oil or Water Colors, and retouched
in India Ink by a competent artest.

## HоTELS.

International Hotel,

FIRE-PROOP BRICK BULLDING. Most conventeut to the
Aug, Busizess ats. \& Places of Amusen
OPEN ALL NIGHT
City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fine Bathing Rooms atheched to the Barber Shop Warm and Cold shower Buths Free to Guests.

THOROUGGLY RENOVATED AND NEWI.Y FUR dir. Each room is furnished with is first qualit) Patent spring Bed and Hair mattresses. Tho Iuterustion

Best Furnished Family Rooms; and ents as goon A TAble as any Houso in the fity
I amodetermined hat the Intkrnatronal shall be tha most comforetable, best regulated, and in all respects on perior to nay like establishmens in the state, and shin!
aim to meril a continuauce of the popular favor it ha eujoyed beretofore. It will be conducted on Temperan Priuciples.

## F. E. WEYGANT, Proprietor.

## Tremont EIouse, <br> 418 and 420 ..... Jackson Street,

$T$ HIS FINE, FIRE-PROOF BUTLDING OFTERS MAN
I ulvantages to the trarelor for convennence. It
only half a bloek from the Post Offee and Custom Houn only half a block from the Post Offee and Custom Houn
and about the samo distance from the priucipal places and about the
Amasoment.

The City Railroad Cars pass the Door.
The House is conducted on Temperance Principles.
WUICH SECURES TO OUR GUESTS QUIET. The prices for board and Rnoms are very maderatc F. E. WEYGANT, Proprietor.

For the accommodatiou of $\mathrm{m} \Gamma$ many guesta I have t Fou hid refurnishel the of mis many guests I have cary on the two hoseen in connection, so thin Travelel
wishing to put up at either house, mony take the Tremer wishing to put up at eithor house, toy take the Tremer
or Internatwal Hotel Coach und be takeu to either Bous withernathonal Hotel Coacla und he takeu to cither Bou
wagage, Fkes.

THE RAILROAD HOU S E.
Nos. 46 and 48 Commercial and Clay Sts SAN FRANCISCO.
II. T. FELTON

PROPRIETORS.
The above House is a Fire-proof bnilding, with Grani Front, and kept on the Europeno Plan, with hoard al lodging by Day or Week to suit the convepience of 0 Patrons.
The Rooms are handsomely frarnishet upplied with Patent Spring Beds, and Hair, MattraskC affording rery superior accommodutions for tamilles single persnns.
The Table is supplien with the best the market affor $t$ priees to suit toe times.
The Rail Road Housc Coach is always in attendance the Steamers to conrey passengers and their baggage the Steamers to convey passenge
the House Free of Charge.
The Honse is open all night.

## P. M. S. C 0.

 rond with the steamers of the atlantic and Yaci
Steamship Company at Aspinwall. FOR PANAMA.

The following Stearoships will be dispatched in
month of Septembur, 1863 .
Sept. 13th,

- Steamer Orimab

Sept., 23d,
Steamer Golden A!

Will leave Folsnm Street Wharf, with Passengers
Treasure, for Puthama
AT $90^{\prime}$ Clock, A. M. PuNCTLAMTY,
AT 9 O'CLOCK, A. M., PUNCTLALLY,
cunnect, via Famama Railroad, at Aspiawall, teamshupls for New Yurk,
For Fright ur passage, apply to
A. B. FORBES, Agent

FUL゙NDRIES \＆MACHINE SHUPS．
REYNOLD S Patent Cut－0ff and Governor， FUK STEAM ENGINES．
1at at shese Invaluable Machines， ARE NUW IN USE
 Saving 20 to 65 per ceut of the Fuel．

## Steon＇s Improved Governor

 Clark＇sSteam and Fire Regulator，


## Ingersoll＇s Patent Drill Press，

Felt for Steam Boilers，Pipes，Etc．．
Steam Engines，Boilers，Pipes，
Anti Inorustation Powder，

## sure Kymuly y li，hie irmin <br> L．A．Buollo，R．a．Virginua Cify， <br> E．T．STEEN Agent． <br> No． 33 Fremout Street，Sau Fruncisco．

MOYNIHAN \＆AITKEN ， Boiler Makers and Blacksmiths，
Mission，between Beal \＆Fremont Sts，
N．B All kiads of Builur and Sheet Iron Work exc作 at the abortest notice，and on the must reasumbit

## P U M P S ！

HARRISON＇S
Califomia Lift and Force Pump， WITHOUT VALVES OR PACKING，
Suituble for Minew，Fire Engine\＆，Wrecking or Irrigat－
g．This is thiccheapest，Lishest and most Durable，
 yul least
fented．

ALI SIZES；
Fapable or throwing from ONE HUNDRED
C．H．HARRISON， Phœevix Oil Wores，
$10 \cdot 16$
17 Front Street，San Froncers．
50 lbg MARINE and
Wire－Proot Paint， M Waractured by The pacific metall dingical Works in this city，tor Hulls and Dicelss of Vessels
 beaper thual to Copper，uo worms will ever effeet it，and

DIRECTIONS ：
For Decks of Ships，use two parts Mineral Paint，one
art White Lead，mixwith Linseer（Cil． For Botlomso of Vessels，uso one eart ground sulphur heeo parts Aineral Psiat，mix with Coal Tar and apg
t hot． for salo by allsbip Chandlers and Tradesmen，in boxe

## as POUNDS FIRE－PROOF PAINT．

When used on Rooff，Buildinge，or Fencer，it is equa hiro corering thena with a coat or stoue，bel costing less than any paint．

## DIRECTIONS ：

HOUSE $=$ Mix three parts Mineral Paint with ons par
Phite lead，thin with Linseed oil：if a lighter color is chite lead，thin with Limseed uil
canted，mix lose paint，more lead Roof ：－Five parts of Mineral Paint，one part whit ead，mix with Linscen oit Put it hick on a tin Rod sone coat when properly applied will last hirec years．

WORKS，North Beach；Office， 509 Sac ramento at．，San Francisco．

FUC゙NDHIES \＆MACHINE EHOP＇S．
PALMER，HANSCUM \＆CU．， GOLDFN STATE IRON WORKS，
No．19，Flret Street，San Franciseo，
Furnish Castings and Machinery of all kinds Also ：
Genutir Waite Ihon Shors and Dies． balamer，hanscuab \＆co．
To Quaitz Miners．
K．nox＇s Improved
AMALGAMATING PAN， Wiri

## PALMER＇S PATENT STEAM CHEST．

The abore combination secures the host

 Catcling of llatibg guld and alver，kliuwn to be nther
wisu loon Made exclusively by

Nos． 19 \＆ 21 First Sistreet，Suu Fructisen



Jовл P．Gallagher．．．．．．．．．．．．．．．．．．．Jorgry A．Mked．
GALLAGHER \＆WEED

## BRASS \＆BELL FOUNDERY <br> AND <br> LOCK FACTORY

No． 126 First strcet，opposite Minna，next door to Paci日c Foundry，all kids of Brass and Composition Castings and Finishing，done with neatness and dispatch．
Church and strambuat belis，of afle sizes in the best mauncr．Bulk，Vault，Store and Prison
Locks，alko brass Padtecks and Sbop Locks of various patter us，on hand and made to order．
per Particular attention given to casting Rudder Bra－ Men Particular attention given to caating Rudder Bra－
All Jobs promptly attended to．－Prices moderate．

## Miners＇Foundry <br> MACHINE WORKS，

FIrgt St．，between Howard \＆Folsom，
san franciscu．
$\mathrm{E}^{\text {VERT DESCRIPTTON OF IRON AND BRASS MACHI－}}$
 Stcarn Fugines and Boiters，Flour，saw and Quartz
 Particular attention will be given to the manufacture
of Machinery in sections，desiguod for places of dimeult of Machinery in siections，Jesignod for places of dimeult
arceas．$V$ vious tude
 mill quantities will be aforded ample fucilities，free

All parties desiring accurate and highly finished draw logs and Superior Mnchinery，ar most reasonabe rave
HOWL LAND，
San Francisco，February 23,1863 ，

## San Francisco Mrachine

IRON WORKS ！
Northeast conner Fremont and Misaion Streets．
$\mathrm{A}^{\text {LL } \text { KINDS }}$ OF MACHENERY MADE TO ORDER ON Steam Engines．High and Low Prossure Quarte

 REPAIRENG promptly attended to．
FOR SALE．

FUUNDIRIES \＆MACHINE SHOPS．

## VULCAN IRON WORKS COMPANY

P．Torquet，Manager，
STEAM ENGINE BUHDERS

## BOILER MAKERS，

Iron Founders and General Engineers，
No 137 \＆ $13 y$ First strect，San Francisco．
Pumplag，Holnting，Humog an uartz－crushiag Huchtuery
Sloees und Dies of tho bardeat iron，
Russla irou Puached Screens．
Steamboat 3achinery ：Naw，Flour and Sugur Milla． High und Law Presure Bollers of all styles． Jonval and other Turbine Watur Wheuls with latest improvemeus．

## W．T．\＆J．GARRATT， City Brass and Bell Founders

B
abBet Metal castivgis，hrie fngnes，force ahd Lirt Pumps，Church nnd Stramboat Bells，Tav－
 COUPLING JONTTM Op ALL BIIRA，Manufucturers of＂

## D．MORRIS，

MACHINE SHOP
227 Market，corner of Beale Street．
Manufacturor of
WARRANTED FIRE－PROOF SAFES
Mill Work，if als kinds made to order．All kinds of

## LEWIS COFFEY AND RISDON，

 Steam builer and sheit monThe only oxclusively Boiler Mabing Rstablishment on Boiler Makers．All orders for New Work the repabirin of Old Work，executed as orderod，and warrauted as

Old Stand，corner Bush and Market Streets．
Opposite Oriental Hotel，San Francisco，Cal．
LEWIS COFFEY
IHEODOR KALLENBERG
Maker of Models FOR INVENTORS．
 Pps，Dies and Die Sluklug，Embossingstamps Reparing of Machincry promptly attended to．
Nois 418 Marzet street，San Francisco．

## HIRAM WRIGHT， pICI MAKER，

Hás established n．Manufactury for the Making of MINER＇S PICKS，
NO $1 \approx 1$ BUSH STRFET，SAN FRANCTSCO，
［Retweon Sangome and Battery，］
Wemre can be had a superior Pick for Miners use As he manufactures all his picks under his own personal
surpervfsion to warrauts them as being made of the beft material and by the best workmanship．
$\begin{aligned} & \text { Orders attended to and filled promptly and with तifs－} \\ & \text { patch．}\end{aligned}$

## WRIGHT＇S PICRS．

JOHN WRIGHT，of Sacramento，has establisned him－ self in San Francised，for the manufacture of every acription of PICKS，of the bost material，at reducen tity，nt low rates Orders from the country promptly
atteaded to．N．B．－None genuine unless stamped with atterded to．
my name． JOGN WRIGHT， 511 Market street，
Opposite Battery，San Francisuo．

OALIFORNIA TOOL WORKS ！
John Weichhart， All Kinds of Edge Tools，Eto．，


Sherptaries！Are Your Assebsumate Valid？A correspondent sugnests the en－ quiry whether advertisements of assessments are valid in which the name of the Compar ny is not given in full： i .0 ．in which the dio－ triet，in which their leads are located，is omitted．At present many advertisements may apply to many companies．
New Firm in Tirainia．－We would call attention to the card of Messrs．Armetrong \＆Wilder，of Virgimia City，which will be found is another columu．A．long，personal acquaintance with IIr．Armstrong，warrants us in assuring our reuders that whatever busi－ ness is entrusted to this firus will be correctly and promptly attended to．

The Rerugio Mining Company：－We have received the Prospectus of this Company re－ cently organized for working＂Nuestra Seño－ re del Refugio＂mine in Chihuahua，Mexico． We shall notice at length next weck．

Rich Coppkr．－Mr．J．T．Taylor，Postmas－ ter at Taylor＇s Ranch，has submitted sume very rich specimens of copper ore to our in－ spection，from Plumas county．The＂Green Ledge，＂located in Geunesse Vulley，besides being very rich in copper，also coutains a large amount of gold．The rock is now being worked in arastras，which yield about $\$ 25$ to to the toa．I he lead is of most nnmistake－ able value．Mr．Taylor also exhibited speci－ mens from the Muuntain Meadow ledge， which shows large quantities of native copper． This ledge also contains gold and frequently shows native silver．A tunnel is now in 300 feet which at 500 feet will strike the ledge over 500 feet in depth．

Hye，Ear and Throat．

## DR．DE CASTRO，

## Oculist and Aurist，

WHO HAS PRACTISED IN NEW such urrivalled puccens，prind ripan cities of Europe with sion of the most emilucut testimovials，may now be con－ to their permueut eure．Dealiness of loog standing tho－ roughly curch．The lioctor cmploys his（by the Medical
Society of Loudon approved）

## Self－adjusting Artificial Tympanum，

For the reliul of deufuers，ateonded by lobs or injury of
thu membrana tympun，and tor the cure of dischargo from the e．r－the iuventiun or De Castro，M．D，，author
of＂Deafocs Practioally Llustrated as to its Nature and The self－udusting Artificial Tympanum was frst intro－ duced to the notice or the profession at the meeting of the
 mo paper，and several members of the Society bore testi－ Mr．Bitser Browu（member）bore teatimony to the Solf－
Me Adjusting Artitioial Pympanum，as be had obsorved the immense bentita young lady triend of bis bad received Irom it．She was io fact，quite deaf，and in a most mia－
crable state the effect of the tympanum was instantape－ ous－quile like a miracle．Five more testimonials frum cipal cities of Earope． Kearny streets．Entrance on Market street

13．Mr．Editor－Having beem afiliteted With deafness for the last two yeare，uriginating fruma
severe cold，and for the last month sulfering from the most excrulisting pains ia my ear，I was obliged to come dowa to Sau Francisco to seek relief．After a plysician＇s
recomenuation to wait on Dr．To Castro，on the corner of recomenulation to wait on Dr．Te Castro，on the corner of
Kearny and Market atreets，and underwenf one operstion Kand it is with the utmost pleasure I can any my hearing Was suddenly aud withint pain eutirely restored．I deem it my duty so make this krowu to the bublic，sid to re－ com mend Dr．De Castro＇s skill as an aurise．
Jumes Callaghan，witness，
San Frapcisco，July yoth， 1863.

> [From the Dally Alta.]

Mopr Dally atta
san Francisco, June Soth., I863.

Permit me through your widely circilated jnuraal，to say，that my duughter Mary Ehen，has been a fflicted with deafuess mince stre was thirtpen montis old，and that sbe
has been a menaber of the Deaf and Durab lustitute since it wha orgarized．On thking her to Dr．De Castro，on the corner of Kearily y and Market Streets，and undergoing un－
der bis dircetion，two operations，she has heard sounds der bis dircetion，two operations，she has heard aounds
very distuctly；and is now，yam hanpy testate ja a fair very distuctly；and is now，I am harpy te state in a fair
way to get permanent reljef．Tho result，thus far，is kat－ isthetory；and I deem this notice due to Dr．De Castro for
his skill ；nad would reenmmead all partics similarly af－ flicted 10 give him a trinl By dhughter has at different times been nuder the cure of the most skilful physicians
aud aurista in Californin，but up to the period of visting Dr．De Castro，recelved no benefit．
CHAS JOHN P．WRIGHT，


Fire Hose! Fire Hose!! Fire Hose !!!
J. P. D. WILKINS,
$\boldsymbol{p}_{\text {rik }}^{\text {The colebrated }}$ Hose from tharniss maker of Stockton, makes
 mont, and known to stand a presure of 125 pounds to the quare inch; as certified by the Chief Engineer

ALSO FOR SALE,



## Mining Shares For Sale

## 0. A. ORANE,

Office 28 Government Block. 475 Shares U. S. Miuing Company, Virgiuia City 910 Shares Granada Gold and Silver Mining Compan
Virgiuia Hiil, Virginia City, Virginia Hill, Virgiaia City,
168 Shares Evoca Ca
pany, Crescent City, Cal
ZO Shares Mol
Cotarado, N. M.
30 Shares Aspinwall
devils gate District, N. T.
75 Shares Washi
Bar, Tuolnmene Co.
288 Shares Montezuma Gold
pany, Iuyo District, Tulare Co.
90 Shares Owen's County Consolidated
Mining Cumpany, Inyo District, Tulare
50 Shares Crown Point Ravine Gold and Silvor Mining Company, Virginia District, N. T.
10 Shares Triunfo Gold and Silver Miniug Company
Sen 28
Santoulo District, Lower Culifornia. San Antoulo District, Lower Culifornia.
Utica Gold \& Silver Mining Company, Offee, 528 Montgumery Strect, San Frauclsco, Sept. 18 ,
186.
Notice is hereby given, that in azcordance with the
laws of the State of California, and the resolutions adop. ted by the Board of
Miniag Comparay, Esmeralda District, there will be sold at Public Auction, at the Offico of the Company of Friday Octaber 23,1863 , at 100 clock A. M. so many delmquent
Shares of the Capital Stock of the Utica Gold \& Silver
Miuing Compsay, stauding in the names of the followiog Miuing Compsuy, stauding in the names of the following named persons, as wil he necessary for the paymeat o
the assessmeut of teu cats per share, levied Juue 12
1863 , and two dollark per share levied August 10,1863 1863 , and two dollark per share levied August 10,186
together wilh cost of uilvertisements and expense of sale unless said assessments with accruing charges are
ously paid:
L. B. Lot, No
L. B. Lott,
J. F. Gilbert
F. A. Bals
G. L. Churoh
G. Moyer,
J. Kanusl

San Francieco sept. 18 G. L. WALRATH, Sec

MINING CARDS.
OWEN'S RIVER CANAL COMIPANY.
Capital Stock . . . . . . . . . . . $\$ 1,000,000$.
10,000 Shares . . . . . . . $\$ 100$ per Share.
A Portion of this Stock is no ofreved to
FULIL PATD AND UTNASSESSABLELE
 406 Montgomery steet.
President.
Seereatry.
Treasurer.
Engineer........................................... T. CLALITION. viliam flemino SPERR KIDDEL................aying Tilior or or San Fractige

Office of Company 328 Montgomery stree

## ARMSTONG \& WILDER,

SEARCHERS OF RECORDS for Minimg Clainas \& Real Estate. RELITABLE ABSTRAOTS guaranteed at reasonable prices. LETTERS OF ENQUIRY promptly answered.
aLEXANDER STOTT,
MINING SECRETARY 512 Sansome Street, San Francisco. Secretary of-

 Figaro, Gold und Siver, Alpine District. auio
T. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Streit.
$\mathrm{O}^{\text {Phir sluver mining stock, }}$ GOULD \& CURRY MINING STOCR, chollar mining stock, CALIFORNIA STEAM NAMIGATION CO'S STOCK, BOUGHT \& SOLD.

## MILLER \& COLEY,

Stook Brokers \& Mining Agents 327 MONTGOMIERY STREET,

Estate Sales Roows, Sau Francisco
ALC KINDS OF STOCK AND MINING Business attended to with Promptnes $\xrightarrow{\text { aug17 }}$

## L. F. LELAND,

STOCK BROKER,
Offico Hours, 10 to $11, \mathrm{~A}, \mathrm{M} . ; 23 / 3$ to $33 / 2, \mathrm{P}, \mathrm{M}$. Member of the San Francisco So

## AGENCY

## For the Purchase and Sale of

 All persons are invited to call and examine Ores from the above mines.

Wr. faulener.

## New Bedford Copper Company,

$T$ HE UNDERSIINED HAVING BEEN APPONTE supplies of their superior manuidactures of
Sifeathina Copper;
Brazter's Copper;
Copper Bolis;
Yellow Sheathina Metal;
Copper and Composition Nauls;
Which they offer to the Trade at the lowest mar
rate, and on the most favorable terms.
MURGAN. STONE \& C , 08 Front Steot San Francisco

BUSINESS CARDS.
Napoleon Copper Mining Company.


Quartz Mill and Furnaces, Bryant Stroet Grossing Third, Sien Framelsco. RECEIVE ALL KINDS OF
ORES AND MINERALS
a lurge or a
LATES EUROPEAN METHODS,

## CAREFUL ANALYSIS,

At their works, to be the most Effectual in obtaiving ro liable resulte, and afterwards converting whatever pro ne2 The South Park, and Folsom und Kearnystreet Car pass Bryant strest

## The Pacific Mineral Compnay

M
Copper, Silufr, Tin, Nickel, Cobalt, Zino,
Lead, akd Sulphurets containing Gold.
 with Silver aud Copper Ores, and advances mado there
Tor
Purtioe prospect the same will receive assistance, if, upon ex amination, such leads are decmod sufficiently valuab justify such expenditur

OFFICE, No. 1, ODD FELLOWS' HALL,
jel-tf Montgomery Street, SLa Franciaco.

## MARTIN \& Co.,

OFFICE---2at Montgomery Street, Up Slairs,
WILL CONTRAOT FOR THE
Purchase of Copper Ores
Assaying 8 per ceant and upwards of Coppor to the Ton Wo will make ADVANCES upon Ores of COPPER, TIN Sacks will Le furnishef and Freitghts Paid on all conigumonsif desired by
J. F. Grebnman,

Stan Francieco Post Oficz, Bos 1259 .
je 1.
San Antonio Gold and Silver Mines
FORWARDING \& IIINING AGENCY
SAMUEL SMITH,



## H. C. KIBBE, minning secretary,

## Commissioner for Nevada Territory

BUSINESS CARDS.
SOUTH PARK
Quartz MIill and Reduction Works,
G OLD AND SLLVER ORRS WORKED AT REASON. lots. All kivius of ores cruablod al shavi L noticice.

| je13 | S. F. CLouske, |
| :---: | :---: |

W. W. HANSCOM,

## Steam and Mechanical Engineer,

Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc... etc.,
aug $x$
Stace Tron Works,

## TO MINING COMIPANIES !

Offices To Let. SUITES OR SINGLE ROOMS, in Government Block, N. W. Cor. or Sansome and

El Paso District, Los Angeles Oounty, MINING AGENCY. c. W. TAPPAN, GENERAL AGENT, "Head Quarters," Mesquit Springs,
Will attend to any businens connected with these mines for a roasonable cousideration, Stamps to the vilue of fifty cints, and encluring an au-
 many of which are for sale at very low Gigures,
For further particulars he would refer to net, Tasg., 425 Davis St., San Francisco Cal. El' Paso, June 21, 1863 .

## MINING \& SCIENTIFIC PRESS.

MHE ONLYMINING, MECHANICAL AND SCIPNTIFIC PAPER ON THES CONTINENT.
third yearl volume vinnew serirl
A new volume of thls extonsively circulated paper commenced Sept. I1, 1862 . It is intended that every number shall bo replete with information concerulhg Mining, Scientific, Mechanical and Industrial pursuits toge of prepared expressly for its columns. This paper is devoted to the alove purposias, together
The with the interests of Scieuce, Arts, Agriculture and Comworce, and any general information that may be of interest to the reader: and it is the intontion of the pro prietor to spare no pains or expense in masing it equal
io interent and valuable jaformation to any paper yot published The Mining Interest
Will ind it of great valuo, as it will contain all the news appertaining to Mining, the prices and sales of M1
ning Stocks, new inventions of Machinery adap purpose, and of ovorythng generally that may be of service to the Miner.

The Inventor !
Will ind it an excellent medrum for the purpose of briaging his invention into notice, of ascertaining an
progress of iavention in this aud other countries, an almo of receiving any information that may be neces sary in obtaining his patent, the proprictors haviug had great oxperience as Patent Ageuts, together with facil
itios at Washington that enable them to obtain Patent ties at Washington that onable them to obtain Patont
with diupatch.

Пhe Mechanic and Manufacturer
$\qquad$ ings of new machines and inventions, together with a large amnuat of readlag matter appertaining therota We are constantly receiving the best scientife jour-

To Chemists, Architects and Millwrights. This journal will be invaluable. All new discoveries in Chemistry will be given, and a large amount of infor-
mation of great service to Architects and Millwrights mation of great service to Architects and Millwrights
will be found in our columns. The Farmers and Plan-
then ters will not be neglected, engravings will be given of erally will be amply discussed.

## Terms.

To mall sabscribers:-Four Dollars per annuma Club Rates
Five Coples for Six Months, $\$ 8$.
Ten Copies for Twelve Months, $\$ 30$.
Names cas be sent in at different times and from
diffrent Post-offices- Specimen copies will be sent-
gratis to any part of the country.
HWWR \& SMITH, Pablishers. ${ }^{-1}$
Room 57, Government Howse, Corner of Washington

#  W. B. EWER, EDITOR. 

## V()I., VI.

SAN FRANCISCO,
IONDAY
EVENIN(i, OCTOBER 19. 1863.
NO. 51.

## MINING DIRECTORY.

## Alemania, silver, Lower California, Mexico, A Marcus, 519 Montgomery streat

 Ashby Stewart, coppor, ( Gariden Dist, Placer connty, J If f'ulver, 43 L streat, Sacramento ANillos $x$ mil
Anderson, eopper, I C' Pray, tiz6 Merchant strret.
Admiral gold and silver, Nierra Dist, Hambulalt, M M Barkor, 406 Montgomery street Antelope ('unsulidation, cop, Intulape Dist, Calaveras co, M Wulthel, Jr, $22 \delta^{\circ}$ Muntg. St Apuche ("hief, gold and silver, I' Brownjohn, fi21 Clay st.
Abiou, it \& S. Slate Range, James Hitchings, 13 Mead House.
Alua, $\mathcal{i}^{2} \mathrm{~S}$, Silver mountain, () Christensen, 213 Jackson sit.
Austra, gold and silver, ( B Hart, 15 Motropolitan Block.
Antelope, gold and silver. Esmeralda, J Miller 327 Montgomery street Alamo. ©, $8 .$, \& c., Contra Custa, Co. $J$ W Crosky, 9 \& 10 Govemment House,
 Alemunia, silver, sau A ntonia I_. C., L Landsberger, ō 19 Montgomery street. Albion. gold and silver, Slate Range District, W H Clark, 224 Montery street. Amagoa, silver, sult ipring District. I A Rawsom. Athensum Buildiog. Arizona, silver and copper, La Paz, 'Thos. Bruwnjohn, 621 Clay strect. Astor, gold and sitver, Guld Hill, N' 'I', F' (' Lovell, 436 Jackson s ruet. Atlantic, gold and silver, Pacific Ledge, I F Yates, Virginia City
Amer can, gold and silrer, Star District, W H Martin, 617 Clay street
Austio, silver. Emmeralda District. $\mathrm{R} O$ D startevant, 428 Montgomery gtreet.
Auaupolitan Conn, silver, Fsimeradda District, C E Buck kioghaui. G677 Cliy street. Americun Pıneer, silver, Lı Paz. Nes M.xico, G W Blake, 224 Montgomery street. Ashland, gold and silver, Virginia District, 'Thos. Brownjoln, 621 Clay s
dila, silver, silver City, L D Inyoldsby, 80 Nerchant street.
Alcatraz, silver, Reese River I)istrict, is Guu d, 528 Clay street
Amaznia Minine Co. Reese River, I T Polk, 56 Motropolitan Block.
Anaa Smith Mining Co. Reese River, R'I' Pulk, 56 Metropo itan Hock. dmericun E'reeman, guld and silver, Thos. Hill, Pioneer Building.
A fax, gold and silver. Coso District, V B Post, lucas \& 'I'urner's Building.
4m. Baltimore. gold and silver, J Crocker, 413 Montromery street
Attas, guld and sifver, Lismeralda District, L D Inguldby, 80 Merchant stree
Alice, gold and silver, Murul Yining District, M. L. McDupald, 34 Metr pulitan Block. Amelia, guld and silver, Pruire fistrict. It Do counny, D F Verdenal, fi36 Clay street. Alameda Coul Mining Co., Alamuda County, L Franconi, Lucas \& 'Turner's Building. 4shim, rold and silver, Fsmeralda INstrict, I N Choynsky, Esmeralda.
Atwil, gold and ilver, Flowry District, T Brownjohn, 621 Cay street.

Astor, gold and silver, Echos Dis'. Humbuldt ' 'o., Ferdinand Yassuult, 4 Barron Building surora Silver Mining cu. Henry Van Pelt, 436 Montgomery street.
Auimua, silver, Burnigo aistrict, Thomas Hill, Yioneer Building, Montgomery street Apollo, g \& s, Silver nountain district, 1 J Owens, 1 Armory Mall.
lamu, gold und silver, Silver City, J F Pope, 113 Ualitomia street.
Intelope, Silver, Esmeralda District, S Patte, 522 Nontgomery streat.
Mhambra Mining Co., Devil's (iate I)istrict, J O Stranch, 815 Sansome street,
Etna, Gold and Silver, Esmeralha District, Vm Winchester, Aurora, Mono county
A nuie Laurie, gold and silver, Humbolt District. I H Gager, Merchant street.
Irlriatic, gold aud silver, Flowery IDistrict, S B Rooney, II Govemment House.
Hbany East, gold and silver, Slate Range District, W H Clark, 522 Montgomery street American, gold and silver, Virginia District, RL L'Taylor, 48 Metropolitan Block.
Areade, Esmeralda Distriet, P B Oppenhiem, Aurori, Mono county.
Illen, ed $\&$ Virrinia District. R Rising, Yiryivia City.
Adrriana, copper, Mineral Spring district, ( Calaveras county
Lrlington. gold and silver, Humboldt, N. G. French, 426 Montpomery street.
Iguas Calientas, gold and silver, Genoa, Henry S. Fitch, 426 Montgromery street.
ibisal, silver, G. F. Kobler
Imeri an, goodd and silver, Priuce Ronal district. Wm. Chapman.

 Llba Nueva, silver, Humboldt county, Wm. Lorterman,
urora, silver, Lower California. Thos. Hill, Pioneer Builling.
Ita No 2 copper, Del Norte Co.. F. B. Hart, corner of Montgomery \& Jarkson. .ftreets. thens, silter, Excellior district Mono county, 0 Dougherty,

Frout street.

Bryan \& Watson, gold and silver I ander County, W C Watson. Metropolitan Bluck. Bulivia, gold ami silver. Guld Hil, N. I', N Shiswriek, G05 clay street. Buckeve, frold and silver, ("inmalar dist... Humboldt, (i. Falkenstein, 426 Montgomery st. Black Mountain Copper Miniug ('o., Clayton Ihist., IR Bmerson, 5.4) C'lay street.
Black Ruck, gold, silver and copper, Contra Costa county, H! Kiblue, 542 Sac. street
Baron Ruthschild, gold, silver and cupper, fontra Custa county, II 1 Kibbe, 542 sac. st. Blumpithal guld and silver, Reese River, F H Rugers, 60i Washingtun street.
Baton Ronge, silver, Reese River, 1) Wilder, 522 Montgomery atreet.
Beverly gold and silver, Reese River. John (iorman, 423 Buttory street
Blue Ledge, g and s. Reese River Dist. 22\% Front strect
Black Ledge, g and s, Reese Kiver Dist, 228 Front street
Baja California, silver, Lower California, Mexico, A Murcus, 519 Montgomery street
Bir Tree, Silver Mountain Iist, T' J Owens, 1 Armory Hall
Brilliant, silver, Slate Range Dist, John B Russell, 410 Montgomery street
Bunker Hill. gold und silver. Lander county, N. T3, P N Edwands. Merchant St.
Bultion G: \& S. Mining Cón, Inyo Dis, David Wilder, 522 Montgomery St,
Bright Star, silver, Reese River, R. T. Yolk, 56 Mctropolitan Block.
Buckeye.gold and silver, si ver City, F \& Cirter, 415 sansome street.
Burning Moscow, si ver. Virginia Jistriet. J P Nourse, cor. Muntry and Jackson streets. Benjamin, g \& s, Devil,s Gate District, R N V an Brant, 706 Montgomery street.
Belfinst, g \& 8 , Devil's Gate district, J II Purkitt, 655. Wushington st.
Bullion, gold and silver. Russ District, David Wilder, 522 Montgomery, etreet.
Bulhon, gold and silver, Van Hurn Di trict, T L Bibbins, 30 Montgomery street.
Bella Vi ta, gold and :ilver, Lower C'a ifornis, S \& Sprague, cor. Cal. and Sunsome. Burnside, silver, Virginia District, E C Lovell, 436 Jackson street.
Banner, go d and silver, His neralda District R N V in Brunt. 706 Montgomery street. Baltic, gold and silver, Gold Hill District, W W Coryell, Virgiria Uity.
Best \& Bulcher, gold and silver, Virginia District, H F H oodraff, Gold Hill.
Bodi Bluff U. T. \& M. Co., Bodic Mini g Jis. Cal., J F Sterling, 33 Montgomery Block. Brenulus, gold and silver Vi, ginia Histrict, i) F Verdenal, 636 Clay street. Bajazette \& G. Era, go d and silver, Virginia Di trict. IR D Furgusun, Virginia City Bamboo. gold and silver, Hismeralda District, J W Gould, 406 Montgomery street, Bodie No 2, gold and silver, Bodie District, Call., A L Chamberlin, 413 Montgomery St. Brarton, gold and silver, Humboldt Listrict, Wm P Denkla. 413 Monigomery street. Big Baby, gold and silver, Esmeralda District, E: Daniels, Express Building.
Blue Mountain, g ld and silver, ('alaveras Co., Hugo Droschfeld, 24 Naglee's Building. Barker, gold and silver, Am. District, H. C.. J S Laty, 305 Montgomery street,
Blue Rilige Mining Co., Slate Ra'ge District, G J Thrner 606 Montgomer! street.
Buena Ventma, G. and Si, Aurora, Mono Co.. Wm V Garvey, 612 M rch nt street.
Best Ch in e, gold and silver, Ficho Dist. Nevada I'., Geo. E. Phelan. T26 Montgomery St. Brazer, gold and silver, Emmeralda District, T H Templeton, 550 ( Mlay street.
Big Chief, gold and silver, Hismeralda Distriet, P B Cornwall 608 Merchant street. Blue Ledge, gull and silver, Bil Dorado Co., A St E Denver, Coloma.
Bamboo Chief, gold and silver, Silver mountain Dis,, TJ J Owens 1 Armory Hall.
Brennts, gold and silver, Devil's Gate Dístric', F. W. Gross, 436 Jackson street. Barclay \&ismith Mining Co., gold \& silvor, Reese River, R. T. Polk, 56 Metropolitan Blk Brewster, gold and silver, Esmeralda, I I Pool, 540 Washington street.
Bralley, gold and silver, Ree e River District. J I, Pool. 540 Washiugton street. Butler, gold and silver. Wm \& Moody, 700 Montgomery street. Broadhead, gold and silver, Thomas Mc Callan, 622 Clay street.
Beverly Con'd copper, El Dorado Cason, J P Nourse, Lucas \& Turner's Building. Belknan Mining Co. F W Gross, 436 Jackson street.
Bunker Hill, gold and silver, Santa Clara District. W H Martin. 617 Clay street.
Barr $\boldsymbol{P}$ Silver Mining Company, Slate Range District, Edward Barry, 636 Sacramento St.
Baltic Con., gold and silver, Smoky Valley, N. Tv,
Barber, gold and silver, Thos. Brownjohn, 621 Clay street.
Big Cañon, sold uad silves, Tuolumne connty, J W Gould, 406 Montromaro stree Barreteros Mining Co. Sinuloa, Mexico, F Vassault: 4 Bolton \& Barron's Bidg. Bluck Hawk, gold and silver, Silver Fill, Thos. MoCallan, 622 Clay street. Bonita, silver, F W Gross. 436 Jackson street.
Blanding, gold and silver, Virgini, District, Henry Toomy. 402 Montgomery street. Bay Copper, guld and silver, Clayton D. Con Cus. S F Gi more, 305 Muntgomery street. Burlington, gold and silver, Esmeralda District. J F Sterling. 33 Montgomery Block Blue Ledge, $g$ \& $\&$ s, Kelsey district, ] I) Ingoldsby, 80 Merchant street
Baltic, gold and silver, Placerville, Eldoradè Co., S. N. Bosworth, No 9 , Express Building. Black Bolt, gold and silver, Virginia, Henry S. Fitch, 426 Montgomery street:
Bell \& Batdwin, tunnel \& mining, Co., Esmeralda, N. G. French, 426 Montgumery street.
Bay City, gold, silver and copper, Clayton district, Alfred Mayers 625. Merchant street. Brilliant. silver, Union district, San Jernardino. C. S. Higgins, 410 Montgomery street. Burton, gold aud silver, New Esmeralda. C. E. Buckingham, 607 Clay street.
Beard \& Seaver, gold and silver, Reese River. W. T. Reynolds. 423 Front street.
Big Blue Leed, gold and silver, Reese River, A. Marcus 513 Mo tgomery street.

Blue Ledge Lovell，silver，Reese River，Davia Wiilder， 522 Monts omery street． Bed Rock，gold and silver，Vrginia district，A．C．＇Teitman， 611 Clay street Bald Eagle，gold and silver，Guldiat district，N．T．，T．L．Bibbinis， 305 Montgomery street Brown，old and silver，Raymond district，T．J．Owent，No I，Armory Hall Buckeye，gold and ilver，Argentine distriet，D．O．Breed，corner of clay \＆Battery streets Big Cañon，gold and silver，Elidorado county，T．W．Gross， 436 Jackisoo street． Bohemia，gold and silver，Mono county， C H Watson，is 28 Montgomery street． Benson，goid and silver，I L Ponl， 540 Washington street．
Brewster，Gold and silver，I L Pool， 540 Washington street．
Clear Oreek Silver Mining Oo．，Sierra，Dis．，N．T．，John M Buraett． 536 Washington St． Clara G．\＆S．Mining Co．，Inyo Dis．，David Wilder， 522 Mongote
Chlpanzingo，silver，Mexico，$⿴ 囗 ⿱ 一 一 廾 彡$ C Kibbe，गे 42 Sacramento street
Consolacion，silver，Durango，Mexico，Michael Hawkins， 403 Pine street
Cumberland，copper，（turden Birr Disti，Plac．ar coun y，JH Culver， 43 L street，Sacramento Chicngo， g and s ，Reese Rivel Dist， 228 Front－treet Cherokee，$g$ and s，Echo Dist，Humboldt，L Franconi，Lucas \＆Turner＇s Building Capitola，gold，silver and copper，Uvas Dist，Sunta Clara co，D R Beekford， 326 Mont．St Colorado，gold and silver，Virginia City，Henry SFitch， 426 Muntgomery street． Ciear Creek，silver，C Stevens， 05 Mintyomery St．
Columbus，gold and silver，© B Hart， 15 Metropolitan Block．
Oox and Rose G．\＆S．Mining Co．，Reeso River，Wm Hollis， 410 Montgomery street．
Chrysupolis G．\＆S．Miniug Co．，Silver nouatain，Mono caunty，E C Lovell， 436 Jackson St Copper Age＇Mn＇g Co．Clayton dis．，Contra Costa co，J W Crosley， 9 \＆10，Governin＇t $H$ se Oontra Costa，g．s．\＆c．，Contra Costa co．，J W Crosley， 9 \＆ 10 Goverament House． Carmeron，gold and silver，Ohio dist．．．Humboldt，G Falkenstein 426 Muatgomary street Cat．Copper Smelting Works，Antioch， R Emerson 540 Clay street．
Columbia G．，S．\＆O．Mining Co．，La Paz，Arizona Ter．，A．S．Gould， 528 Clay street． Chautagat，Silver Mining Company，Reese River，R N Van Brunt， 706 Montgomery street Chrystal，g \＆ g ，Silver mountain district，J L Pool， 540 Washington street． Consolidated，copper，Copperopolis，Richard Powning，Superintendent
Calaveras，copper，Copperopolis，Richard Powning，Superiatendent．
Cuba，gold and silver，Humboldt district，E Flanagan，\＆Naglee＇s Building． Capiapo，silrer，W P Dewey，c rner Clay and Montgomery street．
Constantia Mining Co．Humboldt district，J H Gager，Montgomery B ock．
Copper Hill Mining Cu．Soledad district，Los Augeles，E Barry， 636 Sacranento street．
Chogno，gold and silver，Esmeralda districi，Dis Levy，Esmeralda．
Cinciunati，silver，Reese River district，P B Curnwall， 608 Merchant street．
Camanche，gold and siller，Sugar Pine district，A S Gould， $5 \geq 8$ Clay street．
Cash，gold and and silver，Palmyra district，A．L Chamberlin， 413 Muntgomery street． Codicia Silver Mining Co．Gold Hill District，S B Rooney，Government House． Carrazalita Silver Mining co．Gold Hill District，S B Rooney，Government House． Clio，gold and silver，Tuolumne Co．J F Pope， 115 California street．
Centrul，silver，Virginia District G B McAneny， 712 Montgomery street．
California，silver，Tirginia District，D W Young N E corner Montgomery and Jackson．
Cole，silver，Virginia District，W E Wood， 123 California street．
Cedar Hill Tunnel M Co．CL Farrington， 509 Sacramento street．
Copper and Silver City，gold and silver，Silver City，EH Platt，Virginia City．
Chenango Mining Co．W E Dean， 53 Montgomery Block．
Con．Silver Hill，gold and silver，Esmeralda District．S Pat
Con．Silver Hill，gold and silver，Esmeralda District．S Pattee， 522 Montgomery street．
Crown Point，gold and silver，Gold Hill District，S B Rooney， 11 Goverament House
Combination，gold and silver，Telescope District，David Wilder， 522 Montgomery street
Consumes Mining Co．Saeramento Co．－－Daylur＇s Ranch．
Carbon Hill，Mining Co．Virginia District，－Aurota，Mono Co．
Cape，silver，Esmeralda District，H S Sanders Aurora．Mono Co．
Crescent，gold and silver，Van Horn Dis．J S Luty， 305 Montgomery street．
Corcoran，gold and silver Eismeralda District，J Woodthorpe， 326 Ulay street．
Oarrie Bell，gold and silver，Esmeralda District，W L Duncan，Pioneer Hall．
Cedar，gold and silver，Esmeralda District，＇I＇L Bibbios， 305 Montgomery street．
Cook，gold and silver，Esmeralda District，T L Bibbins， 305 Montgomery street．
Cocheco Mining Co．Humboldt District，N B Mulville， 606 Montgomery street．
Caledonia，gold and silver，Gold Hill District，W B A gard， 412 Front street．
Chrysopolis，gold and silver，Virginia District，$H$ Toomey，cor．Montg．and California．
Colorado gold and silver，La Paz，N M．R E Raimond， 515 Front street．
Cataraugus，gold and silver，Slate Range District，A H Clark， 522 Montgomery street．
Clear Creek，silver，Washoe \＆Eaple District，U Stevens， 6 Parrott＇s Building．
Chrysopolis，silver，Mono County，J H Gager，Montromery Block．
Concert，gold and silver，Esmeralda District，Thomas Brownjohn， 621 Clay street．
Cayga Miping Co．Slate Range District，GJ Turner， 606 Montgomery street．
Croesus，gold and silver，Eagle \＆Washoe district，J P Nourse，Lucas \＆＇Turner＇s Building
Christiana，gold and silver，Esmeralda district，J F Nesmith， 502 Montgomery street
Chicago，gold and silver，Esmeralda district，J Woodthorp， 326 Clay street．
Corinthian，gold and silver，Esmeralda district．J H Purkitt， 655 Wushington st
Colusa，gold and silver，Prince Royal district，M G Elmore， 528 Montgomery street．
Cedar，gold and silver，Esmeralda district，T L Bibbins， 305 Montgomery strret．
Clemens，gold and silver，Esmeralda district，C E Buckingham， 607 Clay street．
Comet，gold and silver，Russ district，D Wilder， 522 Montgomery street．
Congress，gold，Slate Range district，W A West， 419 Montgomery street
Constellation，gold and silver，Humboldt district，V B Post，Lucas \＆Turner＇s Building
Cleopatra，gold and silver，Wm H Watson， 607 Clay stieet．
Carico，silver，Reese R ver district，A．S Gould， 528 Clay street．
Cassius，gold and silver，Buena Vista distrist，F R Jenkins， 80 Merchant street．
Caledona Tunnel，M Ou．Gold Hill District，S B Rooney，Goverument House．
Chilon，gold and silver，＇T＇B Robinson， 896 Froat street．
Charles Cany Mining Co．，Devil＇s Gate，Gomer Evans， 338 Montgomery street．
Carltou，silver and copper，W eaver District， 0 T，G J J＇urner， 606 Montgomery street．
Celestia，silver and copper，Weaver District，OT，GJ Turner， 606 Montgomery street．
Curtis Mining Co．Reese River District，M R Wallis， 15 Metropolitau Block．
Cortez，gold and silver，minigg co，Cor．dis，R N Van Brunt， 706 Montgomery street．
Cosmopolitan，gold and silver，Monitor district，Am Co．I＇J Owens，I Armury Hall．
Capital，gold and silver，Reese River distr ct，MI L McDonald， 34 Metropolitan Block．
Croesus，gold and silver，Orusby County，J H Gager，coruer Montgomery and Merchan
Consolation，guld and silver，A H Griswold，Virginia City．
Crown Lead，g．s．and c．i，Oolorado Ravine，Mariposa County，J W Gould， 406 Montr＇y st．
Cosette，silver and copper，L Franconi，Lucas \＆＇Turner＇s Building．
Contra Costa，gold \＆silver，J W Crosley，Government House．
Cayuga，gold，silvar and copper，Van Horn District，C W Curtis， 606 Montgomey street．
Constitution，gold aud and silver，Lander County，N T，J C Ford， 607 Washington street．
Oentrai American，g \＆s，Gold Hill district，I L．Pool， 540 Washington street．
Chollar，silver，Virgiuiu District W E Dean，53 Montgomery Block．
Chicago and Detroit Consolidated，g \＆\＆s，Monitor dis，，H Dreschfleld， 24 Naglea bld．

California，silver and cop．，Cntalena Island，Sam．P．Howes， 42 是 43 Government House． Coso＇，silver，Coso Distriet．D W Chamhers， 11 Court Block Cherokee，gold and silver，Reese River，W．J．Whipple， 625 Market Street． Comet，gold uad silver，Slate Range，D．Wilder； 522 Montgomery street． Carolita，gold and silver，Big Creek Cañon，W．A．Wheel r， 14 Goverament Houses Chihuahua \＆Western Summit，Esmeraida，W．L．Higgings 630 Montgomery．street．
Comet，gold aud silver，Reese River，W．T＇，Reynolds， 423 Front street． Comet，gold aud silver，Reese River，W．T．Reynolds， 423 Front street，
C＇opper Hill，Ludivico del Norte county，W．N．Moody， 706 Montgomery Street． Caripee，gold and silver，R．O．Sturterant， 612 Montgoniery street．
Coquette，gold and silver，E．Worth， 517 W ashington street． California，gold and silver，St．Marys district，J．U．Pray， 626 Merchant street． Cresent，copper，Del Norte county，H．Friedman， 210 Battery street．
Capriza，couper，Carmen Island，A．$\$$ ．Guuld， 528 Clay street． Capiza，copper，Carmen Island，A．S．Guuld， 528 Clay street．
Chimney Ricck，gold and silver，Virginia，Henry S．Fitch， 426 Montgomery street． Clarisy，gold and silver，Palmyra，A．Pichuo， 629 Clay street． Clinco Semores，gold and silver，Sinaloa，Mexico，I L．Pool， 540 Washington street． Oroesus，Original，gold and silver，Sterra distriet，N．＇T．，E H Field， 420 Noutgomery street
Duniel Webster，gold and silver，Devil＇s Gate Dis．，Alex Stott， 512 Sausome St． Dubuque，gold and silver，H Pichoir，cor．Jackson \＆Montgumery Sts．
Diamond，gold and silver，C B Hart 15 Metropolitan Block．
Die Vernon，silver，R＇T Polk， 56 Montgomery Block
Diana，gand s，Reese River Dist， 228 lrout street
Donophan，g and s，Humboldt Dist．，N T，H C Kibbe， 542 Sac．street
Don Juan G．\＆S．Mining Co．，Esmeralda Dis．David Wilder， 522 Montgomery St．
De3 rt Mining Co．Flowery District，D Wilder， 522 Montgomery street．
Daney，gold and silver，Devil＇s Gate District，A De Seuailhac，Government House．
Dios Padre，gold and silver，Sunora，Mexico．J T Nesmith， 502 Moatgomery street．
Doyle，gold and silver，Esmeralda district，J Woodthorpe， 326 Clay str et
Danube，gold and silver，Esmeralda district，J H Purki t，G55 Washington st．
Dane，gold and silver，Esmerada districl，J R Beard， 4 Armory Hall．
Davis Consolidation，gold and silver，Esmerailda dist．C E Buckingham，Aarora，Mono，Co Dayton，gold und silver，W H Watson， 607 Clay street．
Deposit，gold and silver，Esmeralda，R Clark， 40 Metropolitan Block． Dell，gold and silver，John Fowler，corner Clay and Battery．
Del Rey，silver，Devil＇s Gate District，David Wilder， 522 Montgomery street．
Dannebroge，gold quartz，Yuba County，C L Farrington， 528 Sacraminto street．
Don Pedro gold aud silver，Esmeralda district，J H Purkitt， 655 Washington st．
Dushaway，gold and silver，Esmeralda，J F Miller， 327 Montgomery street．
Delta，gold and silver，Fsineralda district，P 13 Cor wall 608 Merchant street． Dixon，gold and silver，Table mountain district，E Flanagun， 8 Naglee＇s Building． Dimes No 2，gold a：d silver，Esmeralda district，J Armstrong． 610 Merchant street． Detroit，golla and silver，Humboldt district，V B Post，Luoas \＆Turner＇s Building． Dundas，gold and silver，Silver City District，J H Purkitt， 655 Washington st． Del Monte Cross Con．G \＆S Mining Co．，Esmeralda，Wm＇T＇Atwood， 224 Montg＇．street． Defiaua，gold and silver，Gold Hill，W．E．Dean，Montgomery block．
Express Mining Con，Rass District，David Wilder， 522 Montgomery St．
Eureka \＆Elizabeth Con．S．\＆C．，Calaveras counly，R F Roth， 515 Market St．
Excelsior，G \＆S，Lander Co．，N．＇I，N B Mulville， 606 Montgomery St．
El T＇esoro S．M．Cor，Lower California，H C Kibbe， 542 Sac．amento street．
Lnterprise，$g$ and s，Colorado Dist，Arizona $R$ Clarke， 40 Metropolitan Block．
El Dorada Consolidation，gand s，Devil＇s Gate Dist，Lyons co，N T，J F Pope， 13 Cal．St．
Eclipsu Tunnel Co，Humboldt，L Franconi，Lucas \＆Turner＇s Building Eclipsu Tunnel Co，Humboldt，L Franconi，Lucas \＆Turner＇s Building
E．L．Sullivan＇s Mining Company，San Francisco District．
EI Dorado，Con．gold and silver，J F Pope， 113 California Street．
Emma Antonette，gold and silver，E Chevassus， 716 Montgomery St．
Eastern Stari，C W Hayden， 606 Montgomery St．
Eureka，gold，Sampsom Tams， 214 Califoruia St．
Eastern G．\＆S．Mining Co．，Reese River，Wm Hollis， 410 Montgomery street．
Express，gold and silver，Palmyra district，J F Miller， 327 Montgomery street．
Express，gold and silver，Silver City District，J．H．Purkitt， 655 Washington st． Echo，g．\＆s．M．Co．，Gold Hill district，N．T．，N Shiverick 605 Clay street． Echo Extension，gold and silver，Gold Hill district，N．T．，N Shiverick 605 Clay street， El Gran Roder Copper Mining Co．，La Paa，Arizona Ter．，R Emerson， 540 Clay street． Esmeralda，silver，Lismeralda district，S Puttee， 522 Montgomery street． Esmeralda lst Extension N M Co．Esmeralda district，S Pattee． 522 Montgomery street． Jastern Slope Mill \＆M Co．Silver City，J J Cushing，${ }^{2} 27$ Clay street．
Excelsior Mill \＆M Cu．Silver City，－－Silver City．
Larly Dawn，gold and silver，Devil＇s Gate district，JH Brewer， 40 Montgomery street．
Estrick，gold and silver，Eismera＇da distsict，＇I＇L Bibbıns， 305 Montgomery street．
Emmett，Gen．gold and silver，Esmeralda district，John Woodthorpe， 326 Clay street．
El Dorado，gold und silver，Virginia distric＇，Heury＇Joomey，corner Montgomery and Can El Dorado，gold and silver，Virginia distric＇，Heary＇J＇oomey，corner Montgon
Everett，gold and silver，Humbuldt district，J H Gager，Montgomery Block．
Empire，gold and silver，Silver City，B P Ridgway，Metropoliton Hotel．
Empire，gold and silver，Esmeralda district；U H Wakelee， 612 Merchaut street．
Eagie Mining Company，J C Hoyt，N W corner Montgomery and Commercial． Emma，gold and silver，Dayton，Lyon Co．－Dayton，Lyon Co．
E－trel．a．Del Monte，gold and silver，Humboldt disirict，J H Gager，Me
E－trel．a．Del Monte，gold and silver，Humboldt disirict，J H Gager，Mexchant street．
Esmeralda，gold and silver，Buena Vista，H Co．J S Laty， 305 Montgomery street． Last Antelope，gold and s lver，Silver Hill district，J H Blood， 7 Montgomery Block． Empire Mill and Mining Co Gold Hill district，G R Spiuney，Metropolitan Block． Electrical，gold and silver，Esmeralda district，E Worth， 547 Washington street． El T＇gre a Colorado，gold and silver，Durango，Mexico，C L Farrington， 528 Clay street． Naterprise，gold and silver，El Dorado Canon，R Clark，Lyceum Building．
Exchange，copper，Del Norte county，H．S Dalliba， 604 Montgomery street．
Erapire，gold and silver，Coso，J F Miller， 607 Washington street．
Eureka，gold and silver，Silver mountain Dis．，T J Owens，I Armory Hall． Enterprise，copper，Placer County，MG Elmore， 528 Montgomery street．
Hi Paso，gold and silver，Esmeralda district，J F Sterling， 33 Montgomery Block． Esmeralda Spur，gold and silver，Esmeralda district，C W Curtis， 606 Montgomery street Ethan Allen gold and silver，Reese River disirict，M L McDonald， 34 Metropolitan Block
Evanareline，gold and silver，Gold Hill district，N E Grimes， 4 and 5 Government House Evangeline，gold and silver，Gold Hill district，N E Grimes， 4 and 5 Guvernment
Excelsior，gold and silver，El Dorado district，N T．I L Pool， 540 Washington street． Eastern（front lead）M Co．Virginia district，J S Davis， 18 Montgomery Block． Evoca Consolidation，copper，Wel Norte district，E Barry， 636 Sacramento sti eet． Empire，mining and tunneling，I L Pool， 540 Washington street．
Fixchange，copper，gold and silver，Forest Home，Amador county，N．King．
Hiza Auderson，geld and silver，Reese River，Wm．J．Whipple， 625 Merchant street．

Empire, gold and silver, Santa Cruz district, Alfred Mayers 625 Merehant struet. Eureka. gold and silver, ("innahar district. ... T., F. II. Rurers, 607 Wishington street.

Excelsior, copper, Carmen I-land, F. II. W' est. 2 Armory Hall.
Federal State G \& S Mining Co.. Middle IIIl, Fsmeralda district. T Wetzel, 629 Clay St. Fid lity, g, sand c, Contra 'costa Co... J A W'verloun. Kamen's Building. Merchant street. Fair IPlay, eorper, gold and silver, shay (iulch. J If Fry, Hetropalitan Bheck. Fortune, gold and silver, Ciamabar dis.. Humboldt, (is Fiakenstein, *2l Montgomery street. Figaro, gold and silver, Alpine Ms.. Alex Stott,
Freyburg, silver, (iuld Hill, I I. 1'oul, 5:11) II ishington sit.
Frank, gand s, Silver Muuutain, 'I' J Uwells, $\overline{0} 02$ Montgomery atreet Flume Ledge, gands, Calaveras county, Montqumery Maze, 10 Gowvernment House
 Falls of C'lyile, gold and silver, kismeralda district, W L I Juncau. Pinveer Hall. Fluwery Mill Co. Fluwery district, James Peek, 07 Ahnsume street Foundation M and Tiust Cio. Esmeralda district, a Davidsun, Oakland, Alameda County. Francu-dmericma, gold and stwer, Fan Antonio, I, C, A s Guald, 528 Clay street.
Flyaway, pold uml ilver. Esmeralda district P B Oppenhemer, Aurur Dono Coun Flyaway, gold und ilver. Esmeralda district, P B Oppenheimer, Aurura, Mono County.
Fulton, gold and silver, Bimerada district. J II Blood, I Montgomery Block. Feder I L'nion, guld and sifver, Esmerahla dis riet. I' I' Buily, Metropulitau Block Franklin Tumel Mimng C'o. Fismeralda district. D' 13 C'ornwall, 608 Merchant street. Frankfort, Esmeralda diatrict, Jno M Barnett, 605 Montgomery street. Francis Ise s E Extemsion, goll and silver, slato Mange district, i 11 Clark, 522 Montg. st. Filmure, yold and silver, Slate R.ure district, W W Lawton, t19 Muttomery street. Foundry. Lohl and silver. W W Wiguins, 60 Montgomery street.
Fork, gold and silver. Hise Mou tain district. If H. 11 essua, 33 Fr
Fork, gold and silver, Bher Mou tail district. IV II Jessup, 33 Fremont street. Fort Point. gold and Silver. FI Dorado county.J F Miller, 327 Montromery street. Flor de San Aulonio. gold anl silver, John Fowler, (lay st. corner of Battery. Fomuding, guld and silver, IV in l: Mooky, Tog Muntgonery street. Felix, g \& s, Devil's fiate Distri $t$, William Willis, 712 Montgomery street. Fanny Read, silver, FW (iross, 436 Jackson st eut.
Federal Republic, silver. Virginia listrict, N Shiver
Federal Republic, silver, Virginia Mistrict, N Shiverick, cor. Montgomery and Clay streets Felluws ( uartz Mining Co., Sievra connty, J Dardano, Lucas \& 'luruer's buildiag. Falstaff Mining Cq., J T' Bailey, Metropolitan Block:
F C L omis. guld and silver, Gold Ifill District s' T ' steele, Virginia City. Flowery, Fluwery District, J : Gilehrist. Virginia City,
First S. Ext. Chinuahua Mining Co., Lismeraidu District, W W Lawton, 400 Monty St. Federal Hup; gold and silver, Esmeralda District, Thos. Brownjoln, 621 Clay street. Favorite Mining co, Virginia diacrict
First N. E. Extersion Winnewucea, Esmeralda, FH Rogers, 607 Wrashington street. Fredunia, gold and silver, Esmeralda, N. G. French 426 Montgomery street. 51 Uuion, Placer county, W. H. Hunt
" 420 " Mining Co, Virginia City, J. P. Cava'ier, 619 Wushington street.

Golden Fra, gold and sillver, C B Hart, 15 Merropolitan Block.
General Kibbe tt. di S. M.ning Cu., Essmeralda Dis., David Wilder, 522 Montgomery St. Great ('entral Mining Coo, H I: Repps, 542 Sansome St. Gwhen If edge, silver, Gold Hill, $\lambda^{\prime}$ Shiverick, 605 ('lny Street. Great W estern Tunnel Co., Fsimeralia Dist. J C Ford, 526 Washington street Grissim Consolidntion, W C Budd, 607 Washington street Granite Copper Mining Co, Contra Costa connty, F H Rogers, 607 Washington street. Great Chieftan G \& S Mining Co.. Smokey Vulley ris., T Wetzel, 629 Clay street. Great Republic, gold and silver, Silver Lity listrict, J II Purkitt, $6 \overline{5} 5$ Washington st. Golden Gate, silver, Guld Hill distr. N. 'T'., N Shiverick, 605 Clay street. Golden Hedge, gold and silver, Gold Hill dist. N. T., N' Shiverick 605 Clay street. Golden Magnet, gold and silver. C'innubar dist. Fumboldt, 4 Fulkeinstein, 426 Montg'y st Goilden Wedge G \& S Mining Co., Esmeralda Dist, Yy T Atwood. 224 Moutgomery St. Gell. Jacksul, gruld and silver, Devil's Gate Dis., Alex Stott, 512 Sunsome St. Great Central Ming Co., Coluralo River, A. T., H C Kibbe, 542 Sac. street Guadalupe, silver, Chihuahua, Mexien, Wm Blackwood. 742 Washington street. Gould \& Curry, gold and silver, V'r'a Dis't, J O L Wadsworth, Lucas \& Turner's building Guod Hope. Nevada 'Territury, 1 D Davidsun, 338 Montgomery street. Great Central Mining Co., J W Collins, 326 Clay street. Garibaldi, gold and silver, Esmeralda District, J'J'Nesmith, 502 Montgomery Street. Grazelle, gold and silver, bsmeralda District, Daniel Clark, Court Block. Gold Hill Union Mills, goll a: d silver, Gold Hill Dist, J F Sterling, 33 montgomery bloci Great Wettern Mining Co., Coso Di-t., Tulare Co., Barclay Henley, Express Building. Gen. Grant, gold and silver, Esmeralda District.
Gen. Jackson, gold and siiver, lismeralda District, P B Oppenheiner, Aurora. Golden Ase, gold and silv 1 r , Humboldt District, A L Chainberlin, 413 Montgomery St. Gobernadora, silver, San Antonio, L. C., C W Hayden, 606 montqumery street. Gov. Seymour, gold and silv. r, Reese River distri $t_{2}$ Ben. Hooker, gold and silver, Firginia district, J 228 Fr.ml street. Guadeloupe de Los Angeles, gold and silver, L A Sanderson, 1 Armory hall. Heorgiana, gold and silver, Slaie Range District, W W Lawion, 400 Montgomery street. Gulden Era, silver, F W Gross, 436 Jurkson street
Golconda, gold and silver, Reese River District, M L McDonald, 34 Metropolitan block. Great Western Tunnel \& Mining Co., Cosu district, W W Lawton, 400 Montgomery St. Golden Wedge. silver, J P Nourse. Lucaz \& 'Turner's building.
Gold Hill Quartz Mill \& Mining Co., Gold Hill district, Wm Varvey, 619 Merchant St Gold Hill Quartz Mill \& Mining Co., Gold Hill district, Wm V Garvey, 619 Merchant St Gould \& Curry No 1 Mining Co.
Globe, gold and silver, Wm. F Watson, Aurora.\} Or to O. E. Buckingham, Grand T'urk, gohd and silver, Wm H Watson, Aurora. Gray Eagle, gold and silver, Wm H Watson, Aurora. Gem, gold and silver, H -meralda district, T Flitcroft, 617 Clay street.
Gortha Mining Co, Esme alda district. J H Purkitt, 655 Washington st.
Jreen Rock Miniog Co, Angel's Camp, H' A Breed, cor Jackson and Mon'gomery streets Tralvin Miuing Co., Esmeralda district, F. H. Rogers, 607 Washington st. Holden Era Miniug Co, \& C Lovell, 436 Tackson strreet.
Gold Hill Bigr Ledge Mining Co., Wm Willis, 712 Montgomery street.
Treat Eastern, gold and silver, Virginia District, L F Yates, South C. St., Virginia City. hov. Nye, gold and silver, Devil's Gate diatrict, Geo. M Blake, 5 Government house. Tolden Rule Miniug Co.. Tuolumne Co, J B Russell, 410 M ntgomery street. Gem of Nevada, gold and silver, Wm Willis, 712 Montgnmery street.
Hranite Rock, gold and silver, Ceder IIill district, T' Brownjohn. 621 Clay street.
Treen Rock Tunnel Co., Fismeralda district, L IH Ingoldsby, 80 Merchant St.

Geo. Vimmet, gold and silver. Eismoralds district. J Woudthorp, 326 Clay street.
 Colden diatn, Tumbel d Mming C'u., Reese lRiver. David Witder, S2: Mumg manery street. Greencek. Miniay Co, Culaseras county, E A Breed, Lucas d Jurners building. Goblen Age, gold and silver, Revesp River, FA C Lovell. 430 Jackson street.
Guhten Ark d Star of Enypire, gold and silver, Otto Kloppenhurgh.
Grosh ('onsuliduted, gold and silver, Virginia, distriet, J L. Sumells.
Grout Fastern, gold, Tuolumne county, Is,ac Nwain, 406 Nontyomery street. Gem, gold und cilver, sierra district, N. IT, F, II Fiell, 420 Mo igomeny street Garibaldi dE Belvidero C'on. guld. silver and c pper. Claytun district, A Currier. Guld Itill Big Ledge, Muno county, W F. Dean, 53 Muntgumery bluck. Green lode gold, silver and cupper, Mumas Cu, G IV Huderkins. Ciravill Consoliduted, gold and silver, Virwinia, il S Fitch, 426 Montgomery street. Gikdersleve, gold and silver, Genom, II S Fitch, 426 Montgomery street. Gulden Gate copper and silver, Claytion dis., Cuntra Co-ta, s C' Gardiner, Commercial St. Great Western, gold aud silver, W W Lawtou, 4ט0 Montgomery street.
Humboldt Tunnel Co., gold and silver, Esmeralda, F II Rogers, 607 Montgomery street. Diartison Cual and P'laster Mining Cu., San Mateo county, J F Miller, 327 Montgomery St. Hydraulic miniug co, Contra C'usta co., Montrumery Maze, 9 \& 10 Government House. Humboldt Great Consuls. Humboldt, IR FV Vu IBrant. F06 Montgomery street. Ifcrese shoe, silver and copper, Mont Iiablo, Alex Situtt, jl2 Sunsome street. Hupe, guld and silver, O B Hant, 15 Metropulitan Block.
Honest Miner, gold und silver, Reese River Mining District, 228 Front street Harry Raymond G. \& S. Mining Co., Oro Fino Dis. John M Burnett, 536 Washington' St. Hornitas, gold and silver, Mariposa county, J A Kirux, 66 l Washington street. Harris, grold and silver, Esmeralda district, Hugo Dreschfeld, 24 Naglee s buildi Higgons' Hope, gold and silver, San Francisco Co., Hugo Dreschfeld, 24 Naglee's boilding. Harker. gold nnd silver. Reese River district, 228 Fruit street.
Haral, gold and silver Sinalon, Mexico, W H Martin, 617 Clay street.
Hornet Mining Co., Virginia district, C H Light, Virginia ('ity. Hope Mining Co., Gold IXill district, F W Gross, 436 Jackson street.
Hale \& Norcross, silver, Virginia district J F Lightner, Metropulitan block. Harrison, gold und silver, Flowery district, Heury Toomey, N E cor Mont. and Cal. St. Hazel Greeu, gold and silver, Virginia district, I' Brownjohn, 621 Clay street. Heath, gold and silver, Esmeralda distijet, II I) Bequette, Aurora.
Hawley, guld and silver, Devil's Gate district, C Stevens, 6 Purott's building.
Hum oldt Miaing Co., Galena district, I L Poul, 540 Washington street.
Hattie, gold and silver, lismeralda district, J $H$ Purkitt, 40 Metropolitan Block. Hupe, gold and silver. Priuce Royal district, L Franconi, Lueas \& 'Turners's building. H. rinine, gold and silver, Esmeralda district, C UI Wakelee, 612 Merchant street. Hayes, gold and silver, Slate Renge district, C H Wakelee, 612 Merchant street.
Halleck, gold and silver, Great Mogul district. I L Pool, 540 Wushingtion street. Llumboldt. gold and silver, Russ district, D Wilder, 522 Montgomery strect. Heckendorn, gola and silver, Jilne mtn., Calav. Co., C C Bownan, 726 Montgomery street. Hebe, gold and silver, Reese River district, Wm V Garvey. 619 Merchant street. Highland, gold and silver, Humboldt district, Wm A Cornwall, 655 Washington at, Harrison, guld and silver, Geller Ledge, L F Tates, Virgnia City.
Hensley, silver und copper, Weaver district, C. 'I'., G J 'Juruer, C06 Montgamery street. Humboldt Canal Mining Co., Humboldt dist, E A Breed, cor. Jackson aud Munty Sts. Hartford Tunnel and Mining Co, R Clark, Esmeralda, 40 Metropolitan Block. Hadson, gold and silver, Devil's Gate District, I L Pool, 540 Washington street. Hartford Mining Co., Gold Hill distris t, J \& Davies, 18 Montgomery hluck. Hamlet, gold and silver, Reese River, David Wilder, 522 Montgomery street. Harloe, gold and silver, David Wilder, 522 Montgomery street. Heildeherg, gold, silver and copper, C J Tedford, G37 Mission street. Honest Rock Mining Company, Placer county, W H Hunt.
Halsted, gold and silver, Esmeralda, N G French, 426 Montgomery street. Halleck, gold and silver, Esmeralda, C E Buckiugham, 607 Clay street. Hudson, gold and silver, Sierra county, T L Biblins, 305 Montgomery street. Herzog Consolidation, gold and silver, Excelsior district, G J 'Turner, 606 Montgomery St. Howard, gold aud silver, Reese River, C E Buckingham, $60 \%$ Clay street.
Ina Ledge, gold and silver, DeviI's Gate Dis., J Mulville 506 Jackson St.
Illinois 'Tunnel and Mining Co, Esmeralda Dist, J F Pope, 113 Cal. street
IX L, gold and silver, Arizona, N B Mulville, 606 Montgomery St.
Isaacs, gold and silver, Esmeralda district, Jas. Neary, 326 Clay steert.
Iowa, mining co. Virginia district, R N Van Bruat, 706 Montgomery stre Iowa, mining co. Virginia district, R N Van Brunt, 706 Montgomery street
Ida, gold and silver, Russ district, David Wilder, 522 Montgomery street. Indian Queen. gold and silver, Esmeralda district, T L Biblins, 305 Montgomery street. Insurance Miniug Co., Jas Gallugher, 706 Montgomery street.
Inadianola, gold and silver, Humbolt District, J F Pope, 113 California street. Iow 4 , gold and silver, U V Hobart, 505 Montgomery street. Iowd, gold and silver, C Y Hobart, 505 Montgomery street.
Irataba, silver and copper, W caver District, $G J$ Turner, 606 Montgonery st. Indian, gold and silver, John C Leconey, Virginia Ciify.
Independent gold and silver, Argentine District, E E Phillips, Virginia City. Ironclad, gold and silver, El Paso District, Edward Barry, 636 Sacramento st. Imperial, gold and silver, Gold Hill, C T Hopkins, 405 Front st.
Irving, gold and silver, Virginia District, ML L Winn, 542 Sacramento st. Imperatrice Fugenie, gold and silver, Calavera* Co. J Woodthorpe, 326 Clay st. I.X L., grold and si ver, Esmeralda, Sam. P. Huwes, 42 \& 43 Government House. Issbella, gold and silver, Reese River, W B Johnston.
Independent, gold and silver, Reese River, W T Reyrolds, 423 Front street. Isabella gold and silver, Bodie district, Cal., C E Buckingham, 607 Clay street.

Jura, gold and silver, John Hunt. Jr., 3 U. S. Court Building. Jackson, copper, Garden Bar Dist, Placer county, J H Culver, 43 L street, Sacramento Jefferson, copper, Garden Bar Dist, Placer county, J H Culver, 43 I street, Sacramento Joe Lane, gold and silver, Reese River Mining District, 228 Front street Joe Douglas G. \& S. Mining Co., Reese River Dis., R T Polk, 56 Montgomery Block. Jefferson, gold and silver, Slate Raage, J F Miller, 607 Washington street. Jackson, gold and siver, Esmeralda District, Aurora.
Josephine. gold and silver, Coso District, W W Lawton, 400 Montgomery street. Jack Hayes, gold and silver, Esmeralda District; J H Blood, 7 Montgomery block. Jefferson, gold and silver, Esmeralda District, T L, Bibbias, 305 Montgomery street. Jason Mining Co. Si rra and Nevada Co. L, Maubec, 716 Montgomery street. Jenny Lind Mining Co. Esmeralda District, P B Cornwall, 608 Merchant street. Juniata West Mining Co. P Basche, Silver City.
Jefferson, gold and silver, Silver City, E N Bashford, Silver City.
Jefferson, gold and silver, Siver City, E N Bashford, Silver City, Clay strect.
Jejeebboy, gold and silver, Santa Clara District. W Sparrow, J4.
James River, gold and silver, John Gorman 423 Battery street.
Josephine, copper, Calaveras Co. T Brownjohn, 621 Clay street.

Julius，gold and silver，Reese River District，L Fraucuni，Lucas \＆＇Jurner＇s lui ding． Juno，gold and silver，Dismeralda district，M G Flmore， 52 ss Muntrom ry strect． Julia，gold and silver，Vireinia City，A Noel G0\％Washington street．
Jewel，gold and silier，Devil＇s Gate Jistrict，Cha＇s Gardner，Barrun s Build．M rehant strt．
Knickerbocker，and Monumental Consolidation，gold and silver；－－Contra Costa
Keystone，copper，Copperopolis，Calaveras comnty，Jos pl Puwning．Secretary at the mine． Kentucky，gold and silver，C＇uatra（＇osta．C＇al．，H1 C Kible，512 Sac street
King， y and s ，Reese River，E C l＇aliner，Government Hunse
Keetz，gold，Tuolumne county，H C＇Kibbe，54．2 Euc．street
Knickerbucker．gold and silver，Jas Pealjody， $5 \pm 2$ Sacraneuto
Kinderhook，grold and silver，A Falk， 605 Sucramento St．
Kohler Bros．silv，r，San Antoniu，L．C＇．．Kubler 1 i 15 ．Sansome street．
Kuhler，gold aid silver，Esmeraldil District，James Neary， 326 Clay street
Kenkuk，gold and silver．Eimeralda Distri t，C H Wakeiee， 612 Merchant street．
Kate，rold add silver，Prince Ruyal District．L Francuni．Lucas d＇＇urner＇s building． Key Quartz Lode Mining Co．Slate Range District．L R Luve．C＇ustum House．
King David，gold and silver，Kismeralda District，＇T Brownjohn， 621 Clay street． Keikuk，copper，A B Winegar， 322 Front street
Keltz，copper，Tuolumne Co．H U Kibbe， 542 Sacramento street．
Kelley，copper，Consolidated．gold and silvir，Virginia，Ienry is Fitch， 426 Montgomery street． Kansas Consolidated，gold and silver，Vrginia，Ilen＇s S．Fitch， 426 Montgomery street．
Kenosha，gold and silver，Esmeralda，N \＆Freuch， 426 Montgonery street．

La Libertar S．M．Co．，Lower California，H C Kibbe， $\bar{n} 42$ Sacrameuto street
La Candelaria S．M．Co．，Lower Califurvia，H U Kiblye 5.42 Sacrame！to street
Louisville，$g$ and s，Humboldt Dist．，X＇I，H C Kibbe， $5+2$ Sac．street
Lochinvar Hining Co．，Gopher Dist，Calaveras counly，A Marcus．万19 Montgomery street
Lebanon copper，Garden Bar Dist，Hacer cuanty，J H C＇alver， 43 L street，Sucramento
Lilly of the West，G di S，Esmeralda，R Ruhineon， 636 Sactamento St．
Lightner，gold and silver，C 3 Hart， 15 Metropolitan Block．
Lady Adauns，goild and silver，Reese River，R＇${ }^{\prime}$ Polk， 56 Metropolitan Block．
Lady Elizibeth，gold and silver，Silver mountain，J A Woodson．Barron＇s b＇y．Merchant St La Aaud，gold and silver，San Francisco District，s IV Corny， 410 Montgomery street Lady of the Lake G．\＆S．Mining Co．，San Fraucisco Dis．Win Hollis tio Montgomery St La Plata Mining Company，Guld Hill district，N．T．，N Shiverck， 1005 Clay street． La Gloria，gold，silver and copper，Ed Chevassus， 61711 ontgomery street．
Lady Washingt in，silver，Virginia， N shiverick，cor Muntiomery and Clay
Lady Franklin，silver，Virgiuia，N siliverick，cor Moutemery und Clay．
Lone Star，silver，Esmeralda District，A Hanke，Auroria
Lafayette，gold and silver，Guld Hill District Wm E Mhemly， 706 Mo tgomery street．
Lacerne Mining Co．Gold Hill District，J is Paxson，City hall．
Lady Bryan，gold and silver，Fluwery District，Joln＇＇r Banley．metropulita！block
Latiobe Tuunel and Mining Co．Virginia District，R N Vail Brunt， 706 Montgumery st．
Live Yankee，gold and silyer＇，Esmeralda District．I A Multrie，Aurura
Ia Plata Mining Co．Esmeralda District，II S＇sanders，Aurura．
Jivingston，guld and silver，Esmeralda District．Jas Neary，32l；（ lay street
La Amistad，gold and silver，siantiayn，L．U．，A de senaillac，cur Mintanamery \＆Jackson
Los Cruzecitas Mining Co．sonora．ILexico，©，Jirmhan．cur J cks mand Font streets．

Lily Dale，gold and silver，Silver Lit！，J R Brard＋A：umy ITill
Los dugeles Con．gold，silver and crpper，Suldad District，Llfied Denio， $10 t$ California a Lyd，gold and silver，Esmeralda District，loade Tabor， 7 Armury Fal：
Lexington Tunnel Co．Star District，Uhas E，Jnid，montromery street．
Loyal，g，ld and silver，Esmeralda Distric＇，W F＇ITitchececk， 7 Mead Hons．
Lowman，old and silver．Virwinia District，Wm Kmoht， 414 Front strense．
Lady Franklin，copper，Tuo umne Co．GJ Turner， $6 i 66$ Montgonery street．
Live Yankee，gold and silver，Slate Range District，W W Lawion，400）Montgomery stree
Lady Washington，gold and silver，shate Range D．IV w Tawtun， 400 Moatgomery street
Luoa，gold and silver，Esmeralda District． $7^{i}$ Brownjohn， 621 Clay street．
Lafayeite Mining Cu．Jannse Gullariher Tob Merchant $=t r$ et．
Loyal，gold and silfer，Humboldt Cu．F Vassault，curner Mon gomery and Merchant．
Louisville，gold and silver，Humboldt Di trict，H C Kibbe， $52^{2}$ Aarramento strect．
Lord Byrou，gold and silver，Limeralda District．H 13 ＇＇unrdon， $62!$ Mtomtgomery street．
Los Posos，gold and silver，La Paz District，T Brownjun．62l CMay street．
Louisa，gold and silver，Silver City，J F Pupe， 115 Califinnia strept．
Luomis，g．Id and silver，Prince Ruyal District，W Sparruw，it 43 Clay street．
Li Palma，silver．San Anthoio，L．C．，J W Gould，Ioc montyumery street
Lulu，copper and silver，Weaver District，G J Jurner， 606 Huntgouery street
Live Oak；copper，Gopher，Calaverâ Co．J H Gager．Merchant street．
Lancaster Mill and Mining Co．Humboldt Co．N．T．，U＇Wetzler． 320 Montromery stevet．
La Blanea Mining Co．Sonora，Mexico，Chas Frieberg 4018 Clay street
Lone Star Mining Co．Recse Piver，A．L Whitney， 602 Wislington street．
La Esperanza，Arizona，C A Tastinan， 726 Montgomery stieet．
La Providencia Silver Mining Co Copalo，Sinaloa，Frank W Gross， 436 Jackson street．
La Mina del Norte Silver Mining Co．San Antorio，L．C．，Henry Van Pett， 436 Jackson． La Ma ophi Silrer Mining Co．San Antonio，L．C．Henry Vaa Pelt， 436 Jackson street Lizzie Leighton，Consolidation；Esmeralda District，J R Beard； 4 Armory Hall．
Lady Elfen，g \＆s，Silver City District，LD Ingold by， 80 Merchant street．
Longley，gold and silver，San Francisco district，A．T．，S H Corey， 410 Montgomery street． Lady of the Lake，gold and silver，Reese River， F K Mansel．
La Favorita Mining Co．，Sonora，E Wassermaño， 429 Sacramento Street
Livingstone，yold and silver，Genoa，Heury S Fitch， 426 Montgomery Street．
La．Libertad Mining Cos，Sonora，E Wassernann， 429 Sacramento street．
Liverpool，gold and silver，Sierra district．N．T．，E II Field． 420 Montgomery street．
La Proridencia，La Paz，New Mrxico，Geo T Kınox， 611 Montgomery street．
Lucy Ella，gold and silver，J．J Mills， 420 Montgomery street：

Minnesota G \＆S Mining Co．No 1，Gold Hill Dis．，Munro Thompson，Virginia City． Mount Carmel，gold and silver，Argentine District，J H Purkitt， 655 Washiagton st． Mona，gold and silver，Silver City District，J H Purkitt， $6 \overline{5} \tilde{\jmath}$ Washingtonist． Mt．Yernon，g．s．\＆c．M．Co．Murph＇s，Calav．Co．Montgomery Maze． 9 \＆ 11 Gov＇t Douse Mardonald，G．，S．，and C C．M．Co．，Contra Costa，Montgomery Maze， 9 it 11 Gor＇mt House Mount Etna，sllver and copper，Arizoná Dis．，C W Hayden，Montgomery St．
Mountain Queen．gold and silrer，Reese River．John Gorman， 423 Baitery street
Mandot，enper，H L Henschet jos Battery
Monitor，gulf aml silver．Rerse River Dist，，28 Front street
Mammoth，$g$ and s，Humboldt Dist．，N T，H C Kibbe， 542 Sac．strect

Maximilian，coppes，Weaver District，Colorado $\mathbf{R}$ ver， $\mathbf{A}$ Marcus， 519 Muntgomery stréo Mountain View，gold and silver，Culaveras county．CL Taylor 22 Montgomery St． Milwankiv，gold and silver，Slate Range，Jauses Hirchings， 13 Mead House． Madraza，gold and silver，a Martinon， 811 Montgomery St．
Minerva and Gittels Con．，Hugo Ureschtield，Naglees Bruadway
Muntor，cupper，C．Stevelus，ides．Muntamery os．
Magdalena，gold and silver，Filwin Harris
Monte Albano G．\＆S．Mining Có．，Kismeralda Dis．，David Wilder， 522 Montgomery St． Martinez，gold and silver，Reese River Dis．，dohn W buuld． 4166 Montgomery sit．

 Mayfluwer，gold and silver，E ueralda district．W L Dancam，Pionecr building． Mina Prietia，silver，sonora，Mexicu，f P Nuurse．Lue s d＇Turner＇s building． Moss，gold and silver，Vir inia district， 1 C Puge， 428 Montgomery street． Montezumar Tunnel and Mining Co．Ésmeralda district．Aurura．
Mt．Braly Summit，gold and silver，Esineralda district，P $B$ Oppenheim，Aurora， Melunes and stanislatis，grold，silver and copper，Ualaveras，（ieo．C＇ongdon， 629 Commercial Mathews gold and silver，Hismeralda Vistrict，E Worth，547，Washiggton street．
Merchant and Miners，gold aud silver，Nevada Territory，M Lichenstein，Virginia City． Musidora，z Iver．Sonord，Mexicu，F H Waterman，fis Merchant strect Muhave，gold and silver，Lower Califurnia，G s＇I＇arner， 606 Muntgomery street．
 Milwakie，gold and ilrer，S ate Range distriet，W I＇Alwood， 224 Montronsery street． Mcunt Hope，silver，Virginia district，Thomas Bruwnjohu， 621 Cluy street，
Muno Tunnel and Hining（E mpany，Esweralda District，LD Ingolishy， 80 Merchant stit Manhattan gold and silver，Hunholdt district，J H Guger，Montgomery Black． Mayllower，guld and silver，Star District， 228 Irout street． Mason，gold abd silver，Esineralda district， 228 Front street．
Marmion，cupper，guld \＆silver，llariposa district，J T＇Hoyt， 415 Montgonery street． Madisun，gold and silver，slate Range district，P B Cornwall，（i08 Merchant street． Miller，gold and silver，Esmeralda distriat，Isaac Tabor， 7 Armory Hall．
Mammoth No．1，gold and silver，I smeralda district，d IL Beard， 4 Armory Hall．
Mayna Charta，gold and silver，Humboldt，C E Judd， 523 Montromery St
Munitori gold and silver，Slate Kance district，John Crowley， 428 Montgonery street． Munitor，gold and silver，Slate Kange district，John Crowley， 428 Montgonery street． Mammoth，gold aod silver，William E．Moody， 706 Montgohinery street
Munte Cristu，silver，Virginia district，E B Llulms， 712 Moutgomery street． Montren 1 I unnel and Mining Co．．，Kismeralda district．J II Blood， 7 Muntgomery Block： Minerra．guld and silver，Gild Hill distriet，L D lngoldshy，cor．Merchant and Montg＇y ate Muy Rico，silver and copper，Weaver District，Arizona，N B Mulville，606，montgomery st． Muant Vernun，guld and silver，Lismeralda，R Clark，metropolitan Block．
Hagnolia，gold and silver，Prince Royal district，Humboldt，Uhas E Judd， 523 montg＇ry st Murniug Star silver，Great Mogul District，C W Conro，（i23 Merehant street．
Malta，silver，Gold Hill district，A L Chamberlain， 413 Mon－gomery street．
Merchant，silver，Esmeralda district，J F Sterling，＇ 33 Montemery Black．
Montgonery，gold and silver，Kern River district，G．J．Turner， 606 Montgomery street． Marble Valley，gold and silver，Ohio district，GL Dorado Co．，D F Verdenal， 6 C urt Bleck Morning Star，gold and silver，Virginia City，N．＇L．，Wm．A M Van Bukelen，Va．（ity，
Montgunery Miniog Co．，g．and s．．Muni or dis．，Amalor，T＇J Owens， 1 Amory Mall． Mechanics＇，gold and silver，Clayton district．Contra Costa，A R Winegar， 322 Front atreel Monte（hristo，golu and silver，Palmyra district，N．T．，M W Weill，63i）Sacramento strẹet Houte Christo，silver，Kern River district，（ I J＇lumer， 506 Montgumery street． Mountaiu，grold and silver．W E Moody． $70 t i$ Montrumery street．
Mille：Gold and silver Mining Co．，Smoky Valley，R．R，IF W Gross， 436 Jackson street． Metrupolitan，copper．Culaveras Counly，P B Comisall， 608 Merchant street． Monte Lenn＇，G d S，P N Edwards，Barron＇s Building． Murphy＇s Guleh Miaing County．Amador Cuunty，C C Bowman． 526 Montmomery streas Mina Rica de las Flores Mining Compang．A DeTavel，s．W．cor＇．Mont y \＆Jackson s
Margarit + ，ilver and copper，Suledad district，L Franconi，Lucas \＆＇Iurver＇s Building． Mammuth C＇unsolidated，Excelsi distriet．M G Elmore． 828 Montromery street． Mr．Mahon，gold and silver，Deril＇s Gate district，A Noel，got Washington street． McClellan，gold，Virginia district，Jabish Clement， 48 Metropolitan block． Missumi，guld and silve．，Reese River district，M L McDonaki， 34 Metropolitan block． Mina，gold and silver，Esmeralda district，John Crowleg， 428 Montgomery street． Monnt Zion，gold，silver and copper，Claytou dist，Montgonery Maze， 10 Gor＇t Honee． Minturn \＆Gurland，gold and silver，Tirginia district，T Brownjohn， 621 Clay atreet， Mount Washington．gold and silver，Virginia district．ITenry＇Toumey 402 Muntgousery 81 Midpight，gold aüd silver，Esmeralda district．William V．Garvey， 619 Montgomery street Merop llitals，gold and silver．Silver Mountain District．T＇J Owens，I Amory Hall． Maminuth Ledge，copper，Del Norte county，George F．Sharpe，U．S．Court building． Moselle Mining Company，Esm ralda district，W W Lawton， 400 Montgomery street， Miesissippi，Virginia district，G H Bigelow over Parrott \＆Co．
Manzanillo，Copala Mine，Sinaloa，Mexico，＇Thomas Brownjohn， 621 Clay street．
Musquito Quartz Mining Company，Edware Finnard， 433 Mantoomery Ma chester G．\＆S．M．Company，Monitor dis．Anador，Hugo Ireschfield， 24 Naglee ＇bod． Marronema，silver，Lower California，Wm Faulkner， 411 Cluy street．
Molawk，gids，Virginia District，HIS Dallilua，Gil4 Montgomery street．
Minona．gold and silver，Esmeralda district，＇T Brownjuhn， 621 Clay street．
Manhattan Mining．Co．，Edward Franklin，corner of Montgoinery and California street． Monadnock，gold aod silver，Sugar Pine district，A S Gould， 528 Clay street． Mammoth Tunuel Mining Conpany，distr ct，R N Van Brunt， 706 Montgomery 8 Mou tain No 1，gold and silver，Silrer Mountain district，J B Pilkington， 402 Mont＇Si． Minnehaha，silver and copper，＇Carmen Island；Sam．P．Howes， 42 \＆ 43 Goy＇ment Honse Melones Creek，gold and silver，Calaveras county，California，A．Pichou， 629 Clay street Malachite，gold and silver，Clayton district，Alfred Mayers 625 Merchant street． Minnesota，gold and silver，Russ district，N G French， 426 Muntgomery street．
Mayflower，gold and silver，Tulare Co．．S Nosworth No 9 Express building Montry St Mayllower，gold and silver，Coso，J C Pray．
Mount Verion，gold and silver，Esmeralda，R Clark， 40 Montgomery Block．
Miller，gold and silver，Tulare connty．F IT（Hross， 436 Jackson street．
Mountain Peak，gold and silver，H 1reschfeld， 24 Negles bu lding．
Mury L．Gardiner，Esmeralda，T C McCullan， 617 Clay street．
Mystic，gold and silver，Gold Bill district，（G K Kn x， 618 Montgomery street．
Marinca，gold and silver，J T Hoyt， 413 Montgomery street．
Mountain，cold and silver，A mador connty，JB Pilkington， 402 Montgomery street．
Millard Fillmore，gold and silver，Reese River．J S Laty， 305 Montgomery street．
$\lambda_{\text {acosari，}}$ noli silver and copper，Sonora，Mexico，T B Bigclow，Cor．Jachsou \＆Front．
Nacosari，gold silver and copper．Sonora，Mexico，T B Bigelow，Cor．Jachsou \＆Front．

Norman F. \&e S. Mining Co. Star Dis.. Ilumboldt. John M Burnett, 536 Washington St. New Lisuralda, guld and silier, 'T' B Opentubun, Aurera. Nevarla, gull and alver, Ruese River Mlining Disirict, 22s Front street Ne I'lus Cltra, combul' Weaner distriet. J 11 Harris, cor Cluy \& Sansume Sts. Aewsume, gold and ailver, silver City District, J. H. Purkit. Gら̄. Wiahington st.

 Noah Vobstep II. Co.. Humbollt, $1 R$ N Van Brunt. ions Montgomery at Nurt, P'otusi, silser, Virginia diso, ti V Joice, cor. Battery and Wiashington streets. Nurman, silver. F'luwry district, Juhn F' Builey, 40 Mumtgemery. Block. Nupa Quartz, Mionag Compmay, Mismeralda distriet, -_-, Nupa C'ity. Nevadu Tunnel \& Maning Coo, Fismeralda district, - - , Aurura. New lil Ihrado, gohd and silver, Virwinia district, Sacramento. Nuw York: gold and silver, Slate Range district, A H Clarke, $52: 2$ Montgomery street. Xirada Mining Co.. Bismeralda district, P B Comwall, Gils Merchant streets. Neversmk, zold and silver, kimeralda district, I) ('lark, ('ourt bluck. Nurth, Star. guld and sils, r, Humboldt dis rict, II II Gager: Merchant St., Montgomery blk Nightingill, guld und sitver, (immabar districe. A L, Chumberinn, 413 Montgomery street.
 Nurth If Fra cis, gold and silver, Nlate lange district.
North Star, gold ald silrer, Repse River dietrict, if A Drinkhouse, 228 Front strest.

 Norman Company. V'irginia d strict, J 11 Brewer, 40 Montgomery street. Nimional. gold and silver. tismeralla district. J F' Steriing. $3: 3$ Montrome y street. Nevada C'uul Cu, Builing springs district, Itumboldt, C' (iardner, 3 Barron's Building. North. gold and silver, -tar district, James Herrick, 606 Muntgomery street. Neev LÉra, copper, Salt sipring district, H: Barry, 636 Siacramento street. Nuonday, gold and silyer, Reese River district, L I logoldshy, 80 Merchant street. Nugrata, gold and silver, Amercean Distrect, (1 J Tur er, 6et6 Montgomery street. Naslaville gold and silver Oro Fino, Humboldt Co., N. 'I., L C Lovell, 436 Juckson street. New Eden, ruld and silver, Devil's Gate district, a s Guuld, 528 Clay street. Nevada, gold atrel silver, Nevada district, Cal. S Pinkham, Front street. Noble, coppar, C'ulaveras County, EA. Breed, Lucas and 'Turner's Building. Nivada, cupper. Nevada ('o, $\mathbf{H}^{\circ} \mathrm{V}$, Joha Armstrong, 610 Merchaut street. Napulean, copper, ('alaveras Co, R U Aljen, 420 Muntgomery street. New IVar Divgin, yold and silver, Aug. Kurnast, 410 Doutgomery St, Niagrara, gold amo silver. Solurado district. M (i) Elmore, $\overline{2} 28$ Montgomery streel.
 Norman, grlet and silver, Kaymund Dis. ' l ' $\delta$ Owens, 1 Brmory Hall. Nelle \& Juha, Culper, dohn C LIall, 218 Nontgomery strent. Nutry Fumham, grill and siver, Reese River, 11 ml , J Whipple, 625 Merchant sireet.
Nisth Iambon, Mono connty, (If Wutson, 528 Montgomery street Ninth [3ambon, Mono connty, ( If Watson, 528 Montgomery streef. Nelson Mi ing Cu., Inyo district, Uwen's River, M II Furman, 526 Merchant street.

Oceidental Gold \& Silver Mining Co., Silver monnt', Mono Co., E C Lovell, 436 Jackson St. Ortawa, gold and silver, Devil's Gate District, Isaac Tabor, Arinory Hall.
Oympic, y ind s. Reve Kiver. E C: Pulmer, Gov, rnment House.
 (bsipee, ghld and s lver, R 0 ,sturtevant, 612 Montgomery St.
Ophir Momntain, $g$ and s, Slate Range Mist, J B R lassell, 410 Montgomery street Orleans (quicksilver; Lake county, 110 Kibbe $5+2$ Sac. street Ophir, silver, Virginia district, Thos $J$ Lanho, Roon 1 Jexpress building. Os cola, gold and silver, Silver City, O W Evans, san Antunio, Alameda Occidental Miniug Co, Enma Frances district, J II Gager, Montgonery st Orio, Mining Co, Santa Cruz Co, Geo H K Vhler, 526 Montgonery street. Oriental, Orugon. guld aud silver, Reese River distric, 228 Front street O'Dunolith, gold and silver, Esmeralda district, 'T' F'iteroft. 617 Clay stseet. Oriental, gold and silver. Munitur district, 'I' J Owens, 1 Armory Hall. Uwens liver, gold and silver, Ira Munson, 317 Montgomery street, Omera Mining (? 0 , Gold Hill district. L i) Incold y, 80 Merchant street. Oriule, guld and silver, Esmeralda distriet. 'Thos Letson
Occidental, copper, Holedad district, E Baryy, Gi36 Sacramento street. Oru Fino. guld und silser, Reese River district, M L McDonald, 34 Metropolitan block. Overland, silver, Recse River district, A S Gould, 528 Clay street.
Omaha, copper, C'ampo secu, H C Kibbe, 542 Sacramento street.
Olive City, copper, La I'az, Thos Brownjubn, 621 Clay street.
Owths' River, gold and silver. Inyo district. Tulare Co. It C McComb, 621 Clay street. Oncida, gold and silver, Gold Hill district, F Vasault, Barron's buildrug.
Owens River C'adal Co., W F Hitcheock, 328 Montgomery street.
Princeville, gold and silver, Esmeralda, J P Cooledge, Aurora.
Pacific Quicksilver, Lake county, II C Kibbe, 542 Sac. street
Pacific Quicksilver, Lake county, II C Kibbe, 542 Sac. street
Princess, g and s, Culorado Dist, Arizona, R Clark, 40 Metropolitan Block.
Pine Hill, copper', Bear River Dist, Nevada county, J H Culver, 43 L street, -Sacratuento Polar Star, gold and silver, Jas M Swift 617 Clay St.
Palmetto, gold and silver, W F Hughes, 305 Montgomery street
Penole, gold, silver and copper, Geo. A Ball, 517 Clay atreet
Pacific Land Co., Oregon, Joseph C Ford, 607 Washington street.
Patten, gold and silver, Humboldt, J F Miller, 607 Washington street
Poindexter G. \& S. Mining Co., Colorado District, Wm Hollis. 410 Montgomery street Potsdan Consolidated M. Co., Humbold, $\mathbf{R}$ N Van Brunt, 706 Montgomery street. Putusi, gold and silver, Virginia district.'J F Lightuer, Metr'opolitan block.
Pride of the Autelope, gold and silver. Hismeralda district, - Aurora.
Purter, gold and ilver, Lamb Ledge R C Page, 420 Montromery street.
Philadelphia, gold and silver, slate Range, district A H Clark, $\overline{2} 22$ Montgomery street. Pena, silver, San Antonio, L C. Wm. Faulkner, 411 Clay street.
Peytona, gold and silver, Virginia dis'rict, C Stevens, 6 Parrot's building.
Prlar Star, gold and silver, E-meralda district, M B Ashim, Sacramento.
Peerless, gold and silver, Buena Fista district, A L Chamberlin, 413 Montgomery St.
Pimeer, silver, Washoe district. Wm A M Van, Bokolen. Virginia City.
Pacific, gold and silver, Mono Co., H R Reed, 321 Washington street.
Pacific, gold and silver, Mono Co., H R Reed, 321 Washington street.
Pridp of Esmeralda, gold and silver, Esmeralda district, $\mathcal{J}$ F Bailey, 605 Sacramento St.
Paul 'Thompson, gold and silver, Esmeralda district, Geurge Bower, Montgomery street.

Pond, gold and silver, Fsmeralda distriet, IT W Colhum, 10 Express Buildiug. I'inneer C'uso, C'oso distriet, E: 13 Holue, 712 Montgomery strect.
I'ride of Wiske W'rst. Estueraldu district, John Cruwley, 428 Montgomery street. Prospero, gold and silver, Humboldt distriet, V Is Post, Lucas \& 'luruer's building.
Pride of iphir. Lismeralda district, Thos Brownohn, Gi'21 ('lay street. Pride of "phir, lismeralda district, Thos Brownjohn, 621 (Chy street. P'epitı, silver, Dev l's Giate district, Gomer lisums, 338 Montgomery street.
P'ine Nut ('onsolidation, silver, Rese River distriet, is fomd,
 l'ilot lill Consolidation Mining (\%. Greenwood district, I) $\mathrm{k}^{\prime} V$ Vrdsnal, 636 (\%lsy street. P'lutuna, yoh an d silver. Devil's (jate district, J L D'ool, 540 Washington street. I'rince imperial, guld and alver. C'alaveras ('o. J Woodthorpe, 326 ('lay street. Pride of the Wioat Mming Co. Silver City, I. I) Inguldsby, su Merchant street. Pucific star 'ron, fold and silver, Star istrict, I I. P'oul, 5.10 Wushington street. P'iney ('reek, guld, silver and copper, Mariposia Co. Jos. Dardano, Lucas \& I urner's Brgg. Palmyra Consolidation, gold and silver, Pulmyra district, © W Curtis, 606 Montgomery st. Pensacola, golid and silver, Lismeralda distriet, J II Bluod, 7 Montgomery Block. Poor Man's Mining C'o. P'rince Rugal district, W Sparrow, 543 Clay street. P'uritan, gold and silver, H 13 C'ungdon, 621 Washington stroet.
Pride of Washop, gold and silver, Wishoe district, Wm M Mondy, 706 Montgomery street. Providence. gold and silver, Nevada Co. J M B , ffington, 12 (ioverument Hutse. Pioneer Mill and Mining ('o. Reeso River district. L L Lngoldshy, 80 Merchaut street. Parker Tunnel, goll, Fsimeralda district. A is Gould, 528 Cluy street.
'rincess laoyal, goll and silver, 'f C'Mcuallan, 617 Clay street.
Peninsulur Mining Co. Lower California, 1) A. Jennings, 606 Front street.
Plymouth Quar a Miniug C'o. Kelsey district, L D Ingoldaby, 80 Merchant street.
Puchneo, Pennsylvania, gold and silver, Silver Mountain, W F Martin, 810 Moutg Pennsylvania, gold and silver, Silver Mountain, W H Martin, 810 Moutgomery street. Patrick I Fenry, gold and sitver, Esmeralda, P s Fay, 616 Front atroet. Pioneer, copper, Moute Diablo, Jhos. Wallace, 1 A imory Hall.
Paris C'onsolidation, New Lemeralda, C E Buchingham, 60 \% Ohay street Pacific, gold und silver, Humboldt, J L Yool 528 Washington street. Pine Bush, gold and silver, Reese River, W W K night, 230 Front street. Passaic, gold and silver, Reese River, W W Knight, 230 Front street:
Patou Ronge silver, Ree-e River, David Wilder, Paton Ronge silver, Ree-e River, David Wilder, 522 Montgomery street. Progress, silver, Reese River, David Wilder, 522 Montgonery s' reet. Patchin, g \& \& E'a myra district, N. T., J Fi N. smith, 502 Montgumery street. Paris gold and silver, Gold Hill, N. 'T., S P Howes, 42 \& 43 Government Houso Philidelphia, gold and silver, A H Clarke, 522 Montgomery street. Peck, gold and silver, Esmeralda, R Clark, 40 Metropolitan Block.

## Quincy Mining Co. Plumas Co:-Quincy, Plunas Co.

(lueen of the West, gold and silver, E E Phillips, Gold Hill.
Quaker City Little Giant, fold, silver and copper, Olayton district, W L Kirby, 611 Clay st. Quartz Mountain, gold and silver, El Dorado Co. F W Gross, 476 Jackson street.
Queen of the West, Reese River district, 'I' Brownjohn, 621 Clay street Queen of the West, Reese River district, 'I' Brownjohn, 621 Clay street.
Rubicon, Nos 1, 2, 3 and 4, Mono county. Keyes dis., J P Van Hagan, 14 Governmt hr use Romelia mining Co., Contra Costa Co., J W Crosley, 9 \& 10 Government House.
Red Jacket, mining Co., Gontra Costa county, J W Crosley, 9 \& 10 Government House. Red Rock, G \& S, A C Tietman, 64 Clay St.
Rosario, gold and silver, Palmyra Dist, W 1 m Willis, 712 Montgomery street
Ros Ellen, copprr, Garden Bar Dist. Jlacer county, J H Culver, 43 L street, Saciamento Rock River, gold, Butte cuanty Cial., I C Kibbe, 542 Sacramento street
Rose Spring, G, S. \& C., Fldorado, G J Tumer, 606 Muntgomery Stre
Rogers, silver, Flowny district, John F Pope, 113 California treet
Real del Monte Con. gold and silver, Hameralda district, s Pattee, 522 Montgomery street Recse River, gold and silver, Repse River district, R N Van Brunt, 706 Montyomery st Red, White and Blue, gold and silver, Esmeralda district, T L Bibbins, 305 Montgomery. Ruchester, gold and silver, Slate Range district. A H (Yark, 522 Muntgomery street. Ruth Wiudsor, gold and silver, Esmeralda district, $\mathbf{T}$ L Bibbine, 30.5 Montgomery street. Rhodies Dig.ings Quartz Miniug Co. Esmeralda district, G 'louchard, 414 Montgomery st. Recurder, gold and silver, Storey Co. J S Daviee, 18 Montgomery block. Ruby, gold and silver, star district, W H Martin, 617 Olay street. Realito, gold and silver, Sonora, Mexico, W C Budd, 412 Sansome street. Riy, Van Winkle, gold and silver, Wisueralda district. M G fituor, 528 Montgomery street Rosebud. gold and silver, Esmeralda district, J M Burnett. 605 Montgomery street. Rochester, zold and silver, Esmeralda district. Isaac I abor, 7 A rmory Hall. Roanoak, gold and silver, Esmeralia district, Jas Herrick, 605 Montgomery street. Railroad, stlver, Reese River district, AS Gould, 528 Clay street. Kough and Ready, gold and copper, Nevada county, C W M Smith, 57 Gov. Building Rhodes North Ex. Mining Co. Folsoin district, L. Manbee, 716 Montyomery street. Rambler Mining Co. Slate Range district. Wm G Garvey, 619 Merchant street, Rose Quartz Mining Co. Fagle and Washoo dis ricts, Jas Herrick, 606 Montgomery street. Rising Nun, copper; Clayton district, W is Kirby, 611 (lay street.
Red Butte Mining Co. Hismeralda district, W W Lawton, 400 Montgomery street.
Rose Spring Water and Mining Co. Coso district, W W Lawton, 400 Montgomery street Rose Spring Water and Mining Co. Coso district, W $W$ Lawton,
Royal Eagle and Cliff, gold and silver, J Krieg, 755 Clay sireet. Ruvenna, gold, Arizona ''erritory, Jules P Cavillier. 619 WaslingtonStreet.
Rose Spring. Hump of the Dip, Pilot Knob district, Cal. G J Jurner, 606 Mntgomery street. Richlaud, silver; Reese River, David Wilder, 522 Montgomery street.
Reese River Antelope, Reese River, David Wilder, $\grave{2} 22$ Montgomery street.
Ragas, gold and silver, Du ango, San Dimos dis 't, A W Sott, cor' Stuart \& Folsom Sts. Rock Creek, gold and silver, Placer county; P Everts.
Reese River, silver, Lander county, S P Howes, 42 \& 43 Government House.
Red Jacket, copper, Del Norte county, I L Pool, of Washington street.
Rothschild, gold and silver, Sierxa distriot, WH Field, 420 Montgomery street.
San Gabriel, gold, silver and copper, Carmen Island, L. C., J W Gould, 406 Montgomery St. Sarah Frances, gand s, Wester Dis, F V Scudder, 6 Barron's Building.
San Francisco S. M. Co., Lower California, F C Kibbe, 542 Sacramento street Santa Cruz, silver, Lower California, Mexico, A Marcus, 519 Montgomery street Southern Rights, F and s, Reese River Mining Dist, 228 Front struet
Schiler g and s, Gold Hill, A. Ni el, 607 Washington street
Salvador, gold and silver', Chas H W atson, 528 Montgomery street Selbeck, cupper, E F 13ent, Sell ck Gallery
Starlight, gold and silver, Humboldt, N T, J H Gager, Merchant St, Montg. Block
Silver Moon, gold and silver, E Jaudin, 523 Front s'reet
Slate Range, Water: Co, A. H Clark, 522 Montgomery street
St. Charles and St Joseph, Humboldt, Chas. Lumbord, 528 Montgomery street
Sotogome, G \& S, Esmeralda, R Robinson, 636 Sacramento St.
Seneca, G \& S, Esmeralda, R Robinson, 636 Sacramento St.

Santa Clara Tumnel and Mining Caci; Esmeralda Dis., J H Smyth, 49 Metropolitan Block. Sumner, gold and silver, Kern River, Cove district, J F Miller, 327 Montgomery street. Suerto, copper, Carmen Island, lsaac T'abor, 7 Armory Hall.
St Charles, gold and silver, Reese River, Lander County, F H Rogers, 607 Washington str St. Clair, gold and silver, R T Polk, 56 Metropolitan Block.
Southern Belle, gold and silver, Reese River, R T Polk; 56 Metropolitan Block.
St John, Coal co, Cal. and Nevada, H S Dalliba, 604 Montgomery st
Sir Edward, gold and silver, Silver City District, J H Purkitt, 65.5 Washington st.
Shay, gold and silver, silver City District, J H Purkitt, $6 \mathbf{5} 5$ Washingto u st. Setting Sur, g. s. \& c., Contra Costa co., J W Crosley, $9 \& 10$ Government House. Sophie, gold and silver, Tuolumne couny, J C Ford, 6.6 Washington street. San Jose de Vantanas Miniug Co.
Sunnmit Pass Mining Co. Tuolumne Co. T B Ludlum, 528 Clay St.
San Francisco, gold and silver, Slate Range district, $G$ J Turner, 606 Montgomery street. Sheba, gold and silver, Star district, R C Harrison, 6 Naglee's Building.
San Francisco, gold and silver, Cinlorado dis', H C Kibbe, 542 Sice. street, cor. Mont'y South Son ra Mining Co. Esmeralda district, J M Burnett, 605 Merchant street.
San Carlo Exploring and Mining Co. Tulare Co. W W Lawton. 400 Moatgomery street Schiller, gold and silver, Esmeralda district, T' Brownjohn, 621 Clay street.
Salinas, gold and silver, Monterey, Geo E Whitney, 9 Montgomery Block.
South Potosi, gold and silyer, Buena Vi ta dist: ict, J S Luty, 305 Montgomery street. Scott Exploring and Mining Co. Humboldt distriet, L Franconi, Lucas \& 'lurner's Bdg. St. Charles, gold and silver, Esmeralda district, T' Brownjohb, 621 Clay street. Stonewall Consolidation. gold and silver, Esmeralda district, T Brownjohn, 621 Clay street Sunbeam, 1.st SW Extension, Fsmeralda district, I' Brownjohn, 621 Clay street. Siskiyou, gold and silver.Star Di, © E. Judd, 523 Mont'y St.
Snell Exploring and Mining Co.J H Titcomb, 610 Montgomery St.
San Francisco, gold and sith r, San Francisco district, M G Eilmore, 528 Montgomery st. Smoky Valley, sitver. Lander Co. A S Gould, 528 Clay stm et.
Silver State Mioing Co. Virginia district, JS Davies 18 Montgomery Blocir
Salazar, silver, La Paz, Arizona, C I Eaton, over Keith's drug store.
Sweet Vengeance, gold andsilver, a Vavilier. 610 Front street.
Soledad Pass, copper.J H Rutenburg, 442 Washington St.
San Francisco, silver, Potosi Ledge, N Shiverick, cor Montgomery and Clay. Silver Mount, copper, Esmeralda district, S Pattee. 522 Montgomery street. Saxondale, gold and silver. Esmeralda Dis., R. Clarke, 40 Metropolitan bluck. South Hawley Mining Co. Firgi ia district, J F Pope, 113 California street. Stella Mining Co. Virginia district, J S Davies, 18 Montgomery Block.
Sharon Mining Co. Virginia district, J SDavies, 18 Montgomery street.
Salambo, copper, Tuolumne, L Franconi, Lncas \& 'Tarner's Building.
Salambo, copper, Mudimme, Laranconi, Lucas \& Tarner's Building.
Sau Rafael, gold aud silver. Marin county, F H Regers. 607 Washington street Stevenson-Kehoe Mining Co. Gold Hill, Wm Willis, 712 Montgomery street. Stanislaus Union, gold and silver, H O Howard, 523 Montromery street.
Sierra Consolidation, gold and silver, M F Hitchooek, 305 Montgomery street. Sam Moore, gold, silver and copper, Clayton district, A B Graves, 412 Clay St. Santa Rosa Mining Co.W D Robertson, 619 Mont y St.
Sonora, gold ands silver, Virginia d striet, L D Ingoldshy, 80 Merchant street. Santa Rosa, gold and silver, H Polhemus, 413 California street.
Scorpion, silver, Virginia district, W H Martin, 810 Montgomery street.
Sierra Nevada, silver, Virginia district, J H Brewer, 40 Montgornery block.
Silver City, gold and silver, Silver Clity, O Risdon, cor Battery and Bush.
Suecor, gold and silver, Gold Hill district, R H Waller, 1 and 2 Mon gomery block.
Shelton, silver, Aryentine district, J S Daviev, 18 Montgomery Block.
Sierra, silver, Genou district, J F Pope, 113 California street.
St. Louis, gold and silver, Gold Hill district, JH Brewer, 40 Montgomery Block.
Silver City Quartz Mill Co. Silver City, E Bauer, 414 Washington street.
Santiago, gold and silver, Silver City, E A Breed; Lucas \& Turner's Building.
Santa Rosa, gold and silver, Virginia district Nelson Hudson, 620 Wasiington street. Sacramento, gold and silver Virginia district, S W Moore, 408 California street. Sam Wright, Esmeralda district. E Worth, 547 Washington street.
Sigel, gold and silver, Humboldt dist ict, J H Gager, Merchant att., Montgomery Block. Savare Mining Co. Virgivia district, G B McAneny, 712 Montgomery street.
St. George, gold and silver, Virginia district, H Bigelow, cor Mont. \& Sac. streets.
Slate Range, gold and silver, Slate Range district, A H Clark, 522 Montgomery street.
South Utah. gold and silver, Esmeralda district, P B Cornwall, 608 Mercliant street.
Sol Lewis, gold and silver, Esmeralda district, John Crowley, 422 Montgomery street.
Sau Francisco, gold and silver, Hismeralda distriet, J H Blood, 7 Montgomery Block. San Marcial, silver, Sonora, Mexico, R N Van Brunt, 706 Montgomery street. Sacramento East, cold and silver, slate Range dis rict, W H Clark, 224 Montgomery st. Sonora, gold and filver. Esmeralda district, H D Bequette, Aurora.
Sam Patch, gold and silver, Esmeralda district; J H Blood, 7 Montgomery Block.
Silver M and, gold and silver, Grass Tal., Nevada Co. Joha Armatrong, 610 Merehant S Straw berry, gold and silver, E'smeralda dis rict, H D Bequette, Aurura.
Sutr , gold and silver, Virgin \& district, J C Buhlio, B st. Virginia City.
Shoshone, silver, Lander Co. M J Newmark, 522 Montgomery street.
Sugar Pine, guld and silver, Tuolumne Co. S D Jones, Custom House.
Silver Age, gold and silver, Esmeralda district, T Brownjohn, 621 Clay street.
Soyopa, gold and silver, Sonora, Mexico, E B Vreeland, 528 (llay strect.
San Jose, silver, Lower Mexico, J F Nesmith, 502 Montgonery street.
San. Fran. Tun, and Mining Coo., Reese River, C.E. Buckiogham, 528 Clay.
St. Clair, gold and silver, Elsmeralda district, E Worth, 547 Wa-lington street.
. Schmeltzer, silver, American district, M G Elmore, 528 Montgumery street.
St. George, gold and silver, Humboldt district, A.E Chanberlin, 413 Montgomery street. Silver Age, gold and silver, Virginia distriet, - Mygbtt, Virginia City.
Saginaw Quartz Mining Co. Tulare Co. FW Gross, 436 Jackson street.
Sailor, gold and silver, Blue Mountain distriet, H Dresenfeld, 24 Naglee's Building.
Syren, gold and silver, Calaveras Co. Leon Maubee, 716 Montgomery street.
Suburban, gold and silver, Mission Dolores, M Calkin, 326 Clay street.
Seneca, gold an isiiver, Santa Cruz Co. M Calkin, 326 Clay street.
Saratoga, gold and silver, Esmeralda district, T Browojohn, 621 Clay street.
Silver Ligbt, gold and silver, Gold Hill district, F Yaseault, 4 Barrons 1 Building.
South Esmeralda, gold and silver, Lsmeralda district, Wim $\nabla$ Garvey, 619 Merchant street.
San Francisco, silver, Reese River district, A.S Gould. 528 Clay street.
Silver Wedge, gold and silver, N Shiverick, cor Montgomery and Clay.
Silver Stur, gold and silver, Virginia district, $W$ W Moody, 706 Montgomery street.
San Antonio, silker, P Van Pelt, 310 Sansome street.
Soledad, copper, Soledad district, 5 Barry, 63.6 Sacramento street.
Silver Age, gold, silver and copper, Humboldt district,. E Flauagan, 8 Naglee's Building.
San Lor hrzo, gold and silver, Santa Cruz Co. M Calkin, 326 Clay street.
Star Light, gold and silver
Silver Butte Consolidated Silver Mining Co. Silver Butte dis. M G Elmore, 528 Montgomery

San Mateo Copper and Cannel Coal Mining Oo., San Mateo and Santa Clara. Soledad Hill, copper, Los Angelos connty; Jule P Uavilier, 619 Washingtun street. Stuart Anderson, gold and silver, Reese River, W J Whipple, 625 Merchant street. San Francisco, silver, A H Clurk, 522 Montgomery street.
San Francisec, gold and silver, Argentine distrct, N. T., 'A Pichou, 629 Olay street. Salvatierra, silver and copper, Catalena 1sland, S P Howes, 42 \& 43 Goverimment House.
San Patricio, silver and copper, Carmen Island, S P Howes, 42 \& 43 Governmet San Patricio, silver and copper, Carmen Island, S P Howes, 42 \& 43 Governmeut Honse, South Genesee, Lyon coun Y N. T., W G Dean.
Star of Hope, g \& s Silver Mountain, J F Nesmith, 502 Montgomery street. Sonouna Ledge, silver, Reese River, David Wilder, 522 Montgonery street. Sierra Morena, gold and silver. David Wilder. 522 Mongomery street. Shanandoah, gold and silver, Esmeralda, JF Bailey 605 Sacraniento etrect. San Mateo, OM Onro, 623 Montgomery street.
Seneca Mining Co., Virginia district, J Fowler, 326 Clay s'reet.
Stanislaus, copper, Calaveras county, 8 C Pettinos 5 Armory Hall.
St Louis, gold and silver, Gold Hill dist ict. Humboldt, J F Pope, 115 California, atreet San Bernard, silver, Star distriet, L Shearer, 13 Metropolitan Block.
Shosione, silver, Lander county, N. T., M J Newmark 522 Montgomery street. siomite, gold and silver, Reese River, W T Reynoldz, 423 Front street.
Silvian, gold aud silver, Cuntra Costa county, G F Kohler. 528 Montgomery street Sheiton' silver, Post Ledge, Argentine district, J \$ Davis, 17 Mongomery Block. San Dimas, gold and silver, Reese River, O E Buckingham, 528 Clay street. South Locomotive, gold and silver, Bismeralda. C E Bucki, ghain, 607 Clay street. San Pablo, gold and silver, Reese River, O E Buckingham. 528 Clay street. Santa Rosa, Sonoma county. W D Robertson, 619 Monzomery street. Suction, Post Ledge, Arge itine district, J S Davis; 17 Montgomery Block. South Genesee, WE Dean, 53 Montgomery Bloek.
Sebastopol, go dd and silver, R N Van Brunt, 706 Montgomery street. Spring Ledge, gold and silrer, Jsmeralda, R Robinson, 636 Sacramento street. San Banardino, gold and silver, F Vasault, Barrons Building.
Silver Cloud, gold and silver, Reese River. WT Reynolds 423 Front street. Steptoe, gold and silver. Reese River, O E Buckingham, 528 Clay stceet.
Thompsons, gold and silver, Simpsou's Park district, R T Polk, 56 Metropolitan Block Toronto, gold and silver, Argentine District, J II Purkitt, 6.55 Washington st Tecoripa Mining Company, 'T'B Bigelow, corner Jackson and Front
Tranquillon, g.s and c. J F Lohse, 430 Jackson street
Tellurium, gold and silver, W H Martin, 617 Clay street
Tajo, g and $\mathrm{s}, \mathrm{A}$ G Stiles, 212 Catifornia street
Tennessee, gold and silver, Esmeraldh district, J H Blood, 7 Montgomery Block. Theker, gold and silver, Esmeralda district, PB Cornwall, 608 Merchant street Triuifo. gold and silver, San Antonio, L C, H S Brooks, 536 Chay street Tigre of Colorado, gold and silver, Durango, Mexico, E W Newmin, 737 Union street Teeliattacup, gold and silver, Culorado district, E B Holnnes, 712 Montgomery street Third South Utalh, geld and silver, ksmeralda district, Mo \&s Frank, 609 Clay street Tri-Union, gold and silver, Flowery distriet, N Shiverick, cor Montgomery and Clay Tucker Tannel Co. Eismeralda district. P B Cornwall, 608 Merchant street Trausmuntane, Star district, W E Moody, 706 Moutgonery street Touguima, silver, Reese River district, A A Gould, 528 Clay street
Tulate Mining Oo. Inyo Dist., Triare county. Roney Clark, 40 Metropolitan Block. T'elegraph, gold and silver. Exxelsior district, Wm V Garvey, 619 Merchant street Tanilpais, Marin Co. S B Ruoney, Government Hoase
Triton, gold and silver, Virginia district, W E Mondy, 706 Montgomery street Tesora, gold and silver, Lower California, H E Kibbe, cor Sansome and California Table Mountain, copper, Calaveras Co. M G Elinore, 528 Montgomery street Texas, gold and silver, Cedar Hill district, J G Libby, Virginia City Tescalama Mining Co. Lower Oalifernia, 5 H Blood, 7 Montgomery Block Telegraph, goldand silver, silver mountain, T' J Owene, 1 Armory Hall True Delta, copper. Del Norte Co. John F Pope, 113 California street.
Totowah 'Tuunel Co., Reese River, H B Clambers, 619 Wushing ton street. Thunderer, gold and silver, Esmeral da, R Ruhinson, 636 Sacramento street.
Tierra del Fuego, gold and silver, Esmeralda, R Robinson, 636 Sucranento street.
Utah, gold and silver, Flowery district J H Gilchrist, Virginia City
Utah Miving Co. Esineralda district, - Aurora
Union Consolidated, gol 1 and silver, Russ district, O S Higgins, 410 Montgomery street Union Tunnel Co. Hismeralda district, AJ Simmons, Aurora
United States, gold and silver. Virginia district, S B Rooney, 8 Government Hoase Uncle Sam, gold and silver, Silver Mountuin, 'T'J Owens, I Armory Hall
Union No. 2. gold and silver, Rees - River district, 228 Front street.
Union, gold and silver, Russ district, J B Russell, 410 Montgomery street
Utah Consolidated, gold and silver, Reese River district, T Brownjoln, 621 Clay street United Ledges, gold and silver, Silver Hill district, E Fianegan, 8 Naglee's Building. United States Mining Company, Virginia, S B Rooney, 11 Goverument House. United, g, s and c, J P Van Hagan, Government House
Umpire, gold and silver, Sierra Diit, Humboldt M M Barker, 406 Montgomery street United Cosmopolitan, gold and silver, French Corral, A Marcus, 519 Montgomery street Ural, gold and silver, Aurora, Bsmeralda, W H Watson, 630 Montgomery street. Utica, Calaveras county, J T Boyd, 603 Clay street.
Upper Lander, gold and silver, Roese River, W W Knimht, 230 Front street. Utiea, gold and silver, Esmeralda, G L Walrath, 528 Muutgomery street.
Union 34, copper, W. H Miller, 420 Montgomery street.
U. G. gold and silver, W L Higgins, 630 Montgomery steet.

Union, g \& s Gold Hill, Transfer Office 502 Montgoinery street, J F Nesmith.
Vallev, gold and silver, Buena Vista dist, Fumboldt, G Falkenstein, 426 Montgomery st. Valparaiso, $\mathrm{g}, \mathrm{C}$ F Mebins, cor; Clay and Front streets
Vetu Gran la, Arizona, W H Milla, 606 Montgomery St.
Victorina, I andis, Humboldt Hill, H'smeralda Dist, Theodore Wetzel, 629 Clay street
Virginia Hill, gold and silver, Virginia district, HButenoss, Virginia City.
Vibbard, gold and silver, Esmeralda district, Jas Neary, 320 Clay street.
Vilarino Mining Co. Lower California, J D Oreigh, cor Montgomery and California. Virginia Rogers Mining Co. Nevada Territory, E B Bolmes, 712 Montgomery street. Vulcan, gold and silver, Cosodistrict, J H Gager, Merchant st., Montgomery Block. Vesuvian, gold and silver, JP Nourse, Lucas \& Turner's Building. Veatch, silver, Simpson's Park, E B Holmes, 712 Montgomery street.
Verus, gold and silver, Buena Vista district,, L L Yool, 540 Washington street. Victor Hugo, gold and silver, Humboldt distriet, E Flanagan, 8 Naglee's Bailding. Victoria, gold and silver, Esmeralda district, 'T Brownjohn,, 21 Clay street.
Ventata,
Ventatia, gold and silver, Darango, A W Scott, corner Staart \& Folsom streets. Victorine, gold aud silver, Humboldt Hill, T Wetzel, 629 Clay street.

Vivian, gold and silver, Blue Sulphur Springs II S Fitch, 426 Montgonery street. Woulsey, gold and vilver. Guld Hill. Bidwand C [avell, Hist Jackem street. Wide A wake, guld ind silver., Cinnabar dist-.Hunbuldt, (i) Falkenstain, 426 Montgom'y at Webster (is is S Mining ('o., Fsumeralda. Win T Atwood, 224 Montyomery street. Winona, g auls, M G Filmonw, $\mathbf{5} 2 \mathrm{c}$. Montgonery street
Webster, g and s , 1 Iumbuldt Dist., N I', 11 C Kibbe, 542 Sac. street Washue, Gold and silver, (ivid Hill district, D A Jenniugs, cor dacksuna and Front.

Wide Weat, Minmg ('u. Fasmeralua district, Cull Hean, 325 Nuntgumery street. White \& Mu phy, gold und silver, V'irsimia district, J I'Nourse, Lucus \& 'Jurner's Bdg. White Illoud, gold and silver, Virggime distriet,
Willow Aprings, gold and silver, CCuso district, J H Snyre, 407 Montgomery street Wyoming. gold and silver, Esmeralda district, P B Oppenheimer, Aurora Win. Penn, gold and silver, Devil's tiate district, Henry Tounny, cor Cialifornia and Mont Washington, guld and silver, slate Range district, W II Clark, 224 Montromery streot. Winnenueca lat hxtension, zold and silver silver Hill district, J M MeMahon, Silver City Worden, gold and silver Monitur district, C H Wakelee, 612 Merchant strect. Winoshick, gold abd silver, Coso district, V B P'ost, Lucas \& 'Turnar's Buildiug. Washington, geld and silver, Great Eastera Ledge, L F l'ates, Virgiuia City. Wilson, cupper, Ganden Bar district, Cieo Bowen, 610 Clay street
Washington, gold aud silver, EL Doradu Canon. 'I' G Murphy, Virginia City.
Wm. Penn, gold and ilver, Monitur district, A L, Chamberlin, 41 is Muntgomery street. Wasson Cunsulidathd, zuld and silver, Reerse River district, J Herrick, Gitti Muntgomery. Washington, g. 8 and $t$, Bui ing S'prings district, C Gardner, 3 Burron's Building. Wiscun in. grold, Virginia district, Jabish Clement, Metropulitan Bluck. Wa. B. Astur, gold and silver, Gold Hill district, J 'I' Steele, Virginia City. Warron, gold nad silver, Fxcelsior district, Wai V Garvey, 619 Merehant street, Washingtun, copper, Tuolumne Co. II L, Brooks, Government Huuse.
White Cloud, gold and silver, Star district, T Watlace, 1 Armory Hall
Wyandutt and Chrysupulis, gold and silver, Garibaldi district. E Flanagan, 8 Naglee's bdg Winters, g \& s, Argentine 1) strict, C W Jones, 32 and 33 Moutgomery Block. White Horse, $g$ \& $s$, Ifumboldt county, If i Darliba, 604 Montgomery street. White Horse, g \& s, Humboldt couuty, If s Danliba, 604 Montromery
Whanington, gold and silver, Silver munutain. T J Owens, 1 Arnury Hall.
West End, gold and silver, Silver moontain. 'T J Owens, 1 Armory Hadl.
White Cloud, gold and silver. Star district, 'T' Wal uce 1 Armory Hall. Wiscousin Tunuel Company, Reese River, W W Kniaht, 230 Front street. Weaver, gold and silver, Culurado district, J Landsierger, 3à Front street. Willamette, gold and silver, Reese River, C \& Buckingham, 607 Clay street. Whillatch. gold and silver, Reese River, $\quad 228$ Front street. Wubster, gold and silver, Lander connty. T Wetzel, 629 Clay street. Wushington gold and silver, Clayton district, Alfred Myers, 525 Merchant street. William Tell. gold and silver, Tuolumne county, A Pichou 629 Clay street. Whitman, gold and silver, 'I' W Colburn, No 10 Express Building.

Young Winnemucca, gold and silver, Esmeralda district, - Aurora. Yullow Jacket, si ver, Gold Hill district, E Caldwell, Gold Hill
I'reka, guld and silver, lismeralda diz rict, C W Curtis, 606 Montgomery street.
Yarburough, silver, E! Pusu district, E Barry, 636 Sacramento street.
York River, gold and silver, John Gorman, 423 Battery street.
Young America Ucher, gold and silver, Amador Co. G J Turner, 606 Montgomery street York River, Reese River, Johu Gormam, 423 Battery street
Ypsilanti Mining Companp, D A Mc Donald, 311 Market street.
Yuba, gold aud silver, T C Mc Cullan, 622 Clay street.
Yolo San Bernurd, gold and silver, Reese River, Wm J Whipple, 625 Merchant street.
Zonave, gold and silver; O B Hart, 15 Metropulitan Block.

 at the offico of the Company, No $5 \$ 8$ Monegomery Btree or the olection of uffcers for the eusuing year A puoc
sual attendunce is requesten. By urder of the board of 'r M. G. FiMORE, Seoretary,
San Franclaco, September 28,1863
octiz Emmet Copper Mining Company.-No

## MINLNG \& SCIENTIFIC PRESS,

## THE ONLYMINITG, MECHANICAL AND

 SCEENTYFIC PAPER ON THIS CONTINENTTHIRD YBAR $\qquad$ UME VL--NEW SERIEN A uew rolume of this extensively circuiated paner
coramencel sept. 11, 1862 . It is iutended that overy
uinber shall be replete witi infor Minber shall bo replete with informantion concerning whether with several original cllgravings, of new inven-
tlonn, ctc., prepared exprexsly for its columos. Itons, utc., prepared expressly for its columns.
This papur is devoted to the above purposes, together
with the interests of Science, Al'ts, Agricultureand ComWith the interests of Science, Artw, Agriculture and Com-
merce, and any general infornation that may be of in-
turest to tho reader : and it is the intontion of the oro prifert to spare no paius or exnense in making it equa
in internat and valuable information to any paper ye in internat and valuable information to any pape
Will and it an excellent medium !
Will 6nd it an excellent medium for the purpose of progress of invention in this and other countries, and mrogress of invention in this and other countries, and
uno of receing any information that may be neeos-
sary in obtuining his patent, tuo proprietors having had great experieuce as Patent Agonta, together with facil ines it Wayhington that enable them to obtaln Patonts
with dispatch.

The Mechanic and Manufacturer f Will be greatly bencfitted by its perusal, as its col
umns will frou time to time contan origital ongravings of new machines andl inventions, together with a large amount of readlug matter appertaiuing theretn
We are constantly receiving the best scientific jour We are constnatly receiving the best scientific jourextract whatever may be of benefit or interest to
or readers.

## Terms.

To mall subseribers:-Four Doliars per anaum Club Rates.
Tive Copies for Six Months, \$8.
Ten Copies for Six Iouths,
Ten Copies for Twelve Months,
Numes can be sent in at differont Nrmes call be sent in at diliferont times and from
ifferent Post-nfirep- Specimen coples will be sentgratis to any part of the country.
GWICR \& SMITH, Publishers.

Ronm 5T, Government Hoose, Corner of Washington Ronm 57, Government House, Co
Sansome stresta, San Franclaco.

## A. C. MORSE, Mining and Real Estate Agent,

## 



Fire Hose! Fire Hose!! Fire Hose!!!

## J. P. D. WILKINS,




aLSO FOR SALE,



## Mining Shares For Sale

## 0. A. ORANE,

## omice as Goverument Block.

475 sharea U. S. Mioing Company, Virgiuia City. 910 shares Gruadia Gold und silver Moning Compang gian Hil, Vugula City
168 Shares Evaca Co
ao Shares Mohave Miniurg Company, La Paz District 30 Shares Aspinwall Gold and Silrer Mining Company
Devil's Gite District, N. T. y Shares Vashington Copper Mining Company, Iadha ar, Pualnmie Co.
228 shares Muntezuma Guld aud Silver Mining Com payy, Lnyo District, I'nlare Cu.
وu Shares Owan's County Cunsolidared Gold and Silve
Hiliug Company, Iuyo District, Tulare Co. Siusing Company, Iuyo District, Tulare Co.
50 Shares Crowa Pulat Ravine Gold and Silvor Biniag
10 Sunros Triunfo Gold and silver Mining Company

Patent Clams.-We will furuish, on application, the daim of any iuvention that has beun pateuted withia the ast fourteen yeara. The name of the patentee-date
of patent, when kuown, and iwo dollars for copylng or patent, when
Modzes.-luventory will pleuse attack to all madels aent so us, thoir names and addresa, io a legible, per-
manent furm, this will avoid coufusion and prevent orrors.
Drawivas, -We have bighly talented and efflifont Draughtsmen, hy whrim drawiogs of every diseriptlons aro executed in the best atyle of art, with promptrtucie abd al a moderate cost.

## WANTED

By a competent person, tho Secretaryship of fou Minfing Companies. Books to be keptat the Office of tho Miuing and Sclentific Press, No 57 Government House

## AGENTS WANTED.

Wo want a good Agent in overy city, town and settle-
mont, on this Const. Applicants will nond of
mont, on this Coast. Applicants will nond their names
with reference, when splecimen numbers of tha MinIng \& Seicnitine Press willisforwarded to them, anà their names added to our published "List of Agents.
EWER \& SMTTH.

## PARTNER WANTED.

The Proprietor of one of the cidest and most profitable
nuntry newspapers in the State is resircua of taking in
partner. He wanta to dispose of ono-half of his offic to somere geotleman well calculated to take charge of the editurini department, as be is a practical printer bimsel For further purticulars euquire ut this oflice.

## NORTH BEAOE QUABTZ MIL numaniai vom

## Are prepared so work ciold und Silver urem, Ia large of

 Wurklig ansery male of nmall lote, and all klade of Our uew sut romplere sfactitary, will enable wis to WHEFSNR \& THAYER, Proprletors, JUNGA, A matg apmios.San Frapcisco. Oel. 13. 186s.


Ruth Windsor Tunnel Company, EEmoralda diatriet. - Notice Is bercby gived that an axsegge
 By order of the Trustecs.

New Patent Agency.


## The Patent Agenoy Business,

 ulou un. We bave mi Exporienced Agent at Washuge:
tou, which, tugether with our own experience of several Moars, rining and Selentifle Press Agency
 No. 67, Gnvernment House, cornur of Wanhingtou and
Suname strbets, Sun Ftameisco. EWER \& SMITE.

FORETGN PATENTS OB'AINED By application al this oftiee, Romra $5 \%$ Goverument House
EWER \& SM1YH, Solicitors.

## NOTICE TO INVENTORS.

Inventors wishing to Ble Caveats should apply at the Offce, Roon No. 67, Govermment Fiouse. Terms moder-
EWER \& sMiTE.

## PATENT RIGHTS.

## Patent Rights Bought and sold,



## JMPORTANT TO INVENTORS.

## Iuventors who nbtain their Patents through this Offee

 can bave their Inventhous illustrated and described inthe columns of this puper Frke of charge, they incruly furmishiug the eugravings. We arealen irepared to fur minhs engravings at reastanalo rates. Thuse who do not
 can have them iuvebtions fully unticed and described la
our columus, free of clarge. The freo use of our columus to aid them in intraducing their inventions to the pulific
ventors. EWER \& 8 SMMTH.

## MINING LAWS AND FORMS

## TUST PUBLISTMED RY H. H. BANCROFT



 the Bookstores.

## R. W. MYERS, \& CO,

Ohases' New Mill, Fremont Stu, near Market;
JOB TURNING \& SCROLL SAWING.
BRAOKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS
for Stains.
Manufacturers of every description of Oval, Oireular and Square
PIOTURE \& LOOKING GLASS FRAMES

All kinds of Desinge for Ruilding.
R. W. mybes.
E. C. 80 MEg

## OUR MINING DIREOTORY.

We devote nearly the entire of to-day's issue to rur Mining Directory. We have added to the list about 300 companies, removed about the same number of such as we have heretofore been giving by their titles only; their Secretaries not havieg considered their existance of sufficient importance to the public to hand in the locality of office, etc., for iuser-
tion in the Directory. : In addition to the above changes, we have made several hundrel c orrections and changesthe most of which we have sought out by diligent enquiry.

## ESMERALDA STOCE MARKET.

There is but little change in the Stock Market since the ast report from this District.
The Lexington Ledge, on Last Chance Hill, is again being worked, the new shaft is duwn to a depth of 60 feet; the ledge is over six feet wide, and the rock iucreasing in richness. The company have about forty tons of roek taken out, lying at the shaft, ready to be crushed, so soon as a mill can be secured. The rock is said to be equally as rich as the Cruckett or Westeru summit.
The work or the Clan Alpine Ledge, on Last Chance Hill is being prosecuted day and night; the shaft is now down to a depth of sixty-five feet, and the company are drift ing on the ledge-fourteen tons of the rock crushed at Lake' mill, on Wednesday, yielded $\$ 1,382$. The compaay have declared a dividend of $\$ 1,50$ per share on the 38 tons of rock crushed at this mill. The work will be continued, but no more rock will be crusherl until the present contract of this mill on the Pond rock is completed.
The Clan Alpine Company are sanguine that the next crushing on their rock will go over $\$ 90$ per ton.

We are compelled to defer our usual Mining Stock Report for the week. Considerable changes have taken place in the market, for which we refer to our usual lists of sales, for the week.

| Ophir............. 912 Shares $\$ 16 \%$ (a) $\$ 2075$ per foot Fall sof Clyde. . |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Great Westera Tun. 50 |  |  |  |  |
| Josephine, ne $=2 . .197$ | " | 11 @ 111/2 | " " |  |
| Coso. |  |  | " " |  |
| Gould \& Curry .... 16 |  | 4500 @ 4700 |  |  |
| Savage. |  |  |  |  |
| Chollar |  |  |  | " |
| Pride of Washoe, | 4 |  | " " |  |
| Bullion, . . . . . . . . . 54 | " | 50 @ 58 | " |  |
| Esmeralda |  |  | " | 6 |
| Laurel Hill, | " | $21 / 2$ | " ${ }^{\text {a }}$ |  |
| Willow Consol' | " |  | " " |  |
| Branch Mint, | " |  | " | " |
| Die Vernon, . . . ${ }^{\text {a }}$. 25 |  | 14 @ 15 | " " |  |
| United Cosmopoli', - |  |  | " " |  |
| Union, G. H.,. . . 156 | " | 50 @ 55 |  | " |
| Union, R. D.,..... 176 | " | 2 @ 23/4 |  |  |
| Rhode's Diggins, . . - | ${ }^{\prime}$ |  |  |  |
| Hale \& Norcross. . - | " |  | " " |  |
| Uncle Sam....... 52 |  | 130 @ 150 | " " |  |
| Echo. ........... ${ }^{\text {a }}$ | 130150 |  | " |  |
| Baltic. ...... - = 149 | (1) 73 |  | " |  |
| El Dorado......... 38 | 70 @ 73 |  | " " |  |
| North Potosi ..... 211 | 42 @ 53 |  | " |  |
| Caledonia Tun. Co.. 50 | 4...t36 42 |  | - |  |
| Indepeudent, G. Hi $\rightarrow$ |  |  |  |  |  |
| Silver Hill ... . . . . . 45 | " | 19 @ 30 | , |  |
| Garibaldi. | ( |  | " |  |
| Bodie Bluff. |  |  |  |  |  |
| Willow Springs. . 10 | " | 785 @ 90 |  |  |
| Sheba........... 189 |  |  | " " |  |
| De Soto.. | " |  |  |  |
| Monte Cliristo.... - |  |  |  |  | " ${ }^{\text {\% }}$ |  |
| Birdsall........... - | " |  | " " |  |
| Bob Black |  |  | " |  |
| Techattucup | " |  | 4 |  |
| Napoleon. | "\% |  | " |  |
| Fellowes. | "V\% | - |  | " |
| Potosi............. 8 | " | $\begin{aligned} & 1400 \\ & 1000 \end{aligned}$ | " " |  |
| Yellow Jacket...... 8 . | " |  | " " |  |
| Imperial. |  | 500 @ 600 | " " |  |
| Overman........... 13 | " |  |  |  |
| Best \& Belcher |  |  | " " |  |
| Sierra Nevada. . . 35 | " | 97\%@105 | " " |  |
| Daney........... 124 | " | 90@105 | " " |  |
| Burnitag Moscow . . 1065 | " | 250. @ 330 |  |  |
| Charles Caney. . .... 5 | -" | 15 | " " |  |
| Baltimore American . 16 | " | 40 @ 45 | " " |  |
| North American. . 502 |  | . 62 @ 75 |  |  |
| Bullion (G. H.) | " |  |  |  |

Bulllion (G. H.).

| Pride of the West, . - " |  |
| :---: | :---: |
| Spauish No 2... |  |
| Norton.......... . 200 | ${ }^{6}$ |
| Bu nside. . . . . . . . . 20 |  |
| Adriatic. |  |
| lowa. | " |
| Madison.......... 313 |  |
| Buckeye............ 30 |  |
| Lucerue |  |
| Lady Byran . . . . . . 180 | " |
| Mt. Davidson....... 50 | 4 |
| Cedar Hill 'lunnel . .- | " |
| North Ophir |  |
| Wide West. . . . . . 1019 | " |
| Real Del Monte . . . . 10 | " |
| Utah............. 17 | * |
| Pond. | " |
| Grass Valley, |  |
| Michigau, G. H., | " |
| Ural, |  |
| Bodie No 2, | " |
| Blue Ledge, |  |
| Napoleoa, Copper, | " |
| Oneida, |  |
| St. George, . . . . . . - | " |
| Sacramento. |  |
| Govervor Nye. |  |
| Table Mountain Cop. - | " |
| Diamond, R. R... ${ }^{\text {a }}$ | " |
| Josep ine, Copper. |  |
| Melunes,......... . 111 |  |
| La Crosse........ . 20 |  |
| Harrison, Vir. Dis.. - |  |




## REMOVAL.

The Office of the Mintig and Scifntific Press, has been removed to Ruoms Nins. 5 fi and 57 Government Hutise, cor ner of Washinerton and Sarsiome Streets. We have lieen induced ti) make this change of location, not only with the vew of securing mu re room and beter accommudations for ourselves, but chiefly to better accommodate persons having Wusiness with the office. Our location is now central, easy pf access, and in the direct way of the chief travel of the city to and from the Post Office.

THE ANTIOCH COFPER SMELTING WORES.
We are informed that the Califormia Copper Sinelting Works re progressing favorably; of course the superintendant has o expreriment to a certain extent upon some of the refracory materials used in the construction of some portion of the furnace. We are told, however, that so far everything looks ke a complete success. The Cumpany also seem to be satbfed with the obtained resulte, and a proot of that is, that bother very large furnace is in the course of erection, and patout ten days will be ready for working. We see no pason whatever, why copper smelting. will not be a safe and are investment as any in California. We have an abung withoat a doubt. Parties can obtain coal as cheap here they can in most of the Eastern States; copper works and e copper ore much cheaper. Our own requirements for pper will be pretty considerable, and is already quite large. e shall be pleased to see the California Copper Smelting forks supplying this demand. On the strength of this her large manufuctories will start into existance-such as te producing of the various copper impelnents and apparatas fed for manufacturing and domestic purposes. We can allook forward to the production of brass. The success of a enterprise cannot be over estimated, and it deserves the and grod will of every Califoraian. Why cannot CaliInia supply the demand for copper of China and various fher places. In such a large seaport, considerable sheath will be required for ship bottoms, and cannot we expect 1. Antioch Copper Works to fill this want, at some day, early ithe futuren 'I he Company will soon have a few tons of raufactured copper ready, although at present they have in Whe only the concentration of the ores, so that none may We their works assaying less than 50 per cent. of copper. Then these works are in full working operation, copper mies that will not pay now. cau be worked to an immense Fit. Mines producing even five per cent. of copper will enfuully pay. They would pay even now if parties were to pi pp machinery on their works, and dress their ores; and uil this is done, copper mining can not be profitable in the mfurity of the mines of this State.
he Alta Califorvia Copper Mine is located in De N'te County, about eighteen miles from a good shipping pait. It was incorporated in 1860 . It has an incline 250 fe deep, and is now shipping 20 per cent. ore. It is one of thumast promisiog mines in that county.

## [From our Traveling Corrempurdeat.]

## COPPEROPOLIS.

Mr. Editor:-I have now commenced in eamest the busiuess of my special mission; and as one of its principal ob jects was to cullect all the information I could of this wonderful district, which might be interesting to the community at large, I shall begin with a short notice of t"e town itself Copperopolis is situated some thirtr-five miles above Stock ton, a little south of east. six miles from the sitanislats River opposite the Central Ferry. The main trivel, however; to Sonora and Columbia, and that section of the country, passes over - Ferry. where they are building a magnificent suspension bridge, at a cost I understand, of $\$ 20,000$.

The town stands upon a'site admirably adapted for the large and important city it is destiued soon to become. It's present dimensions, indeed, are quite respectable, corrsidering it is only two years old. A mong it's principal buildings are Col. Manning's hotel, a large, commodious house, conducted admirably, and affording better accomodations than you get at Sitockton; where, by the way, in this respect, they are sadly behiad the times-the Catholic Church, Mr. Hardy's private residence, and the public works of the Union and Keystone mines. There are also two livery stables doing a good business, several large stores, Ice Cream Saloons, and about the usual amount of bars, though so far as I hare seen, people, for a mining town are very temperate.
The population, I beliere, is about twelve huudred; amongst which the Cornish and Irish miners form quite an item. There are two schools, one public and one private, with about an equal number of pupils; and the general Sab-bath-school, with an attendance of 60 children on an average. I do not know whether they bave a resident minister, but a a matter of course, there's a Doctor and a Lawyer. The lat ter are inevitable everywhere: I was rather surprised to find the Protestant resideots have not built a suitable place of worship, considering the population, and the permanency of the mines; bat, at present, Divine Service is held in the public hall, a respectable building, standing in the centre of the town, which also answers for theater, ball-room, etce., as casion requires
The valley through which these rich and extensive copper deposits run, is surrounded with hills well timbered, and containing a soil capable of producing anything. The gr at draw-back to agricultural pursuits at present, is the searcity of water; but, to obviate this, a large company have commenced a tunnel into the high bill on the upper side of the own, with a view; principally to strike water, and, if success ful, as no doubt they will be, then Copperopolis, in this repect, will very soon be a second Coloma; where every man its hterally "under his own vine and fig-tree."

## the mines.

To visit each mine seperately as Fintended, and to render my description intelligible to strangers at a distance, is a work of labor, consuming considerable time. I ano however making all- possible progress, consistent with it's importance and, here perbaps, is the proper place to acknowledge the extreme politeness and consideration with which all parties treat me, and the assistance they afford. Wheuever or
where I want to go, there's a bugry at command. At the fitiong time, as in gratitude bound, I shall mention each party by name. On presenting friend Elmore's introduction to Mr. Pike. Wells, Fargo \& ( 0 : ${ }^{\circ}$ agent here, he amanged immediately to have a conveyunce for me the following moming; when accompanied hy Mr. Johnson and Col Manning, we all started to visi the Massachusetts, but as this miue is not upon what is called the Copperopolis lode proper, I shall omit it's description now in order to avoid coufusion. At present I shall confine myself to those stretching from the town to the river, a distance of six miles, and give them, serialim, as they follow in succession. First then comes

## tae union.

Of this claim I am unable to give any particulars as the authorities, for reasons best known to themsel res, refuse admission. All I can say is, that a portion of it runs out from the town towards the river until its joins the

EMPIRE.
This mine stands high. Their main shaft is about 110 feet deep. It's exteat is 1,800 l'eet, containing twelve shares. At present they are not at work below, so I did not go duwn. In a short time, this will be one of the leading clains.

This mine follows in a direct line upon the main lode, and in the adrancement of 1 t's works, stands next to the Union and Keystone: It is almost incredible, the amount of work done upon this claim. It contains 3.000 feet divided into twenty shares. The main shaft is about 110 feet deep. Over this shaft they have pui a splendid little engine of 20 horse power. with 10 inch cylinder and $1 / 1 / 2$ feet stroke. The engine is intended for hoisting ore, and pumping. The pump will be a plain lifting pump about 8 inches in diameter. All these works will be completed very soon, The machinery whs manufactured in Stockton, and rellects great credit upon the Globe Foundry. In sinking an air shaft, about 100 feet above the engine house; they recently struck a magnificent deposit of ore at 30 feet deep, which was reported at Stockton to contain 30 per cent, sulphurets. I forward three samples of this ore, for your cabinet collection, which I picked up this morning, out of a large pile equally good. For three long years, the owners have had untiring faith in this claim, and like all faith accompanied with good works, it will reap the final reward of success.

## columbue.

Yesterday Mr. Beardsly very kindly offered to drive me round. Our first visit was to the Columbus. This claim is only just opened. They do not expect to strike anything of consequence until 100 feet deep. They are now down alout forty feet, with strong indications of good ore The claim contaius 2,400 feet divided into 16 shares. I think myself that thirty feet more of tunneling will make quite a difference in the value of this claim.

## fryouth rock.

This clain is also only opened. It consists of 2,500 feet, divided into 18 shares. They are down 40 out of 150 feet which they expect to have to sink. Indications good.
colyer.
Immediately opposite the Plymouth and adjoining is the Colyer, only a few hundred feet apart. Both are prospecting
for the main lode, with equal chances of success, as through this point it is difficult to guess the exact bearing. The Colyer takes the flat. The claim is 1,200 feet I believe: At present no nork is going on, owing to the accidental death of Mr. Colyer, a short time since, from a premature explosign of a blast.
mebster \& alta consolidated.
Next follow these two claims, also running parallel and d rectly opposite to each other, 1 ke the preceeding. Neither are working below. The Webster people were driven out by water and are now driving a tunnel. The Alta suspended work from some misunderstanding about assessments. I did not learn the extent of the Webster; the Alta Consolidated is 3,000 feet, divided into 20 shares. Like the preceeding two, no one can tell which will win the prize.

## saxox.

My ride with Mr. Beardsley terminated at this claim. It is also just commenced. being only 30 feet deep. It contains 2,400 feet, divided into 15 shares. Mr. Binnex, the Superintendent, is doing splendid work; he is both practical and intelligent. From indications, and beurings of the compass, the Saxon think they will couse on the lode, when they get down 100 feet. I shall go down this shaft some other time. I-am anxious to do so, beeause if they prove correct in their judgement and strike the Copperopoli: lode, in what light are we to regard the splendid lead already developed by the Table Mountain claim, oue fourth of a mile west of the Suxon. and the last in this line before reacling the river.

## wide west.

Parallel with the Saxon, and adjoining the Table Mountain, is the Wide West. It contains 3,000 feet, divided into 20 shares. They calculate to siuk 100 feet, and then drift East about 30 feet as directed by the Table Mountain, of which indeed, it is an extension. At present they are only down a few feet.
table hoentain.
Although I risited this splendid mine on Saturday with Mr. Pike, this is the proper place to notice it, as on the Copperopolis range proper, it is the last clain toward; the river from the town, in the direction I have so far taken. Although last mentioned, for many reasons, it is the first in importance. Table Mountain is between 5 and 6 miles from town, nearly south east, and about one mile from the Stanislaus river. The claim consists of 2,150 , feet in 21 shares. They have two shafts, one 120 , the other 40 feet deep. In the latter they have a magnificent lead 4 feet thick; io the former, they were some thirty feet east of the lead, from this they are now drifting and have about 10 or 12 feet more to go. They are workiug day and uight-employing fourteens bands.
Out of the 40 feet shaft, they took 12 tons of No 1 ore. I sent you two splendid pieces of ore which I took from the bottom of this shaft. Apart from the richness of the lead dereloped in this shaft, it has importance from the fact, that it varies from the direct line of the Union lead taken by Professor Whitney, who invariably places the Saxon on the direct line. What then is the inference? That in instend of one direct copper lode, running through this ralley, there are two, or else the Professor made a mistake of one fourth of a mile, and the Table Mountain, not the Saxon, is on the main lead. Whichever proves true in the end, it is at present of great consequence to the intermediate claims still undeveloped. I have, howerer, something further to say about the Table Mountain. It was a matter of notoriety on Montgomery street, before I left, that the Table Mountain stock was depreciated 15 dollars a foot, having fallen, I think, from 40 to 25 dollars. However this came abont, persoual observation assures me, it was a gross injustice. There is not a better developed lead, at 40 feet feet, in this district, than Table Mountain, and the samples I send down, which I picked off the solid rock, indiscriminately, at the bottom, proves this fact. I mention this truth, ouly in justice to the district; and because the stook being a marketable article, the public at large have a right to know the truth. My opinion is that those who buy this stock at $\$ 40$, bny rery cheaply indeed and lay the foundation of a nice speculation.
These claims I have spoken of however, including only a portion of the Cniou are but a tithe of those in the district. They simply embrace those located on the right of the town, leading to the river. I ans just going out again in the opposite direction with Mr. Lrons a gentlenan frum Mr. Honing3berger's establishnuent, and shall contivue my reports nutil I
have inspected all.
L. H.

Copperopolis, Oct. 15, 1863.

## [From our special Correspondent.] COPPEROPOLIS.

Mr. Editor-My first letter apon the mines of this district embraced those of what I shall call, or the sake of distinguishing them, and making their exact locality more readily understood, the first dirision-that is, those stretching from the town on te right-hand to the river Stanislaus, and supposed to be on the celebrated Copperopolis lode proper.
Since that letter, I have received a continuance of civilities from the residents of this hospitable town, being in fact kept traveling round nearly all the time. Yoar old friend, Mr. S. Johnson, invited me to spend a few days at his place, to inspect the Eureka and Flizabeth Consolidated, the Argentine, and the Hope, all being under his superintendence. I cannot speak to highly of his polite attentions. On my rereturn, I paid a fying visit to the Napoleon, where I was cordially entertained by the new Superintendent, Mr. Steinberger, who allowed me the use of his horse for a coluple of
days, so that I could be more unfettered in my movements. I days, so that I could be more unfettered in my movements. I was in the saddle to-day from eight A. M. to six P. M., and though somewhat fatigued-for I assure you, it is not very agreeable work, going down all these mines, sometimes hy ladder, sometimes by rope, to a depth ranging from 50 to 200 feet-I, nevertheless, remember it is the night on which I must send you another communieation.
The peculiar features of this region, as yon approach it from the plaius, have so recently been elaborately described by the Editor-of the Press, it will be unnecessary for me to say anything more on that head, than that his account was geologically accurate, and that the entire belt, commencing at the Napoleon, and extending to San Domingo, a distance of 25 uiles north, affords a most complete field for scientific investigation. The fact to me most incomprehensible is that this discovery should have been delayed so long, considering the number of men in this State, who have worked in the English and American capper lodes. In every rock and stone, in the gulches or on the bauks, you can observe the copper hue, while in the croppiugs you will everywhere find carbonate of copper, frequently sulphurets, and sometimes native ore. Perhaps, however, it is most wisely ordained, that things are as we find them; that one discovery should follow another in due season, to stimulate the enterprise, and employ the energies of the people. A few years ago it was all gold, now it is all silver and copper; a few years hence, it will be all iron, lead and tin; and, when our necessities force us into further activity, we shall search for the latter metals in this vicinity, and find them in equal abundance.
But I must now give the result of my last week's inspection. The first on my list is the

## massachusetts.

You may remember I told you this was the first I visited. It's discription I delaged because it did not belong to the range or location of those I gare, and because I was convinced on seeing it, that another discovery, as important as the Union was made, and I naturally desired to see the results of a little more work, before I spoke definitely of it's nerits. This mine is situated some six miles south of the town, on a range running barallel with those mentioned already, bearing from them on an air line with the Saxon and Table Mountain, about three miles west. This lode, distinct fron the other, has somewhat peculiar croppings and bears a very strieght course to the river. It contains 4,500 feet divided into 150 shares. There is only one shaft, (prospecting, down about 40 feet. The rock from the commencement has been very pure, and now yields ore sufficently good for shipping. When twenty feet deeper, I think the vein will be twenty feet wide; while for richness, when fully developed, it will equal, if not surpass, the far-fanmed Union and Keystone. Adjoining on the Noith of the Massachusetts comes the
From Copperopolis, the Pacific is the first mine on this renge. I mention it second because at present it has not the same irpportance as its neighbor. There is no reason, however, why it should nat be as good. It contalns, I believe 4,500 feet divided into 30 shares. It will henceforth, I understand, be worked steadily. On the south end of the Massachusetts, going towards the river comes the

## swansea.

This mine ooce reacked so high as to have a local ralue of $\$ 15$ per foot. It's valuation has fallen at present, but simply, in my opinion, from want of judgement or experiencee in
selecting the place to pat the shaft down. For instance this mine, unquestionably valuable, has been worked for a year with no practical results as regards the vein, from this cause alone. The old shaft io feet deep is at last abandoned and a new one commenced under mnch more favorable auspices. I think the present shaft will develope something, though the site is not exactly well chosen. It contains 4,500 feet divided into thinty shares, The work will naw be prosecuted vigorously. Next to the Swansey, and last on this range comes the

## scorpion.

This mine is nearest to the river of any, being almost on it's banks. The same error of judgement has been committed here as at the Swansea, and their shaft, ëxcept for ventilating purposes in future, is entirely useless. They have gone down 120 feet. and intend sinking for two weeks more, although a long way below the vein, wit', an intention of drifting to the east to strike it. In my opinion, this is bad policy. They will have to run a drift at least 40 feet, and through so bard a rock that it will cost as mach nearly as to sink a new shaft in the proper place. The rock hitherto raised carries an inmense quantity of iron, and is generally corrupt: There is no doubt, however, the claim will alfimately be good. It contains 3,500 feet divided into forty shares. This claim is the wetest I have been iuto yet; water is generally very scarce throughout the district. From the river, on the opposite side to Montezuma, a distauce of six niles south, this wonderous copper lead disappears altogether.
1 mast now taka you in an opposite direction, to Mr. Johnson's. You leare town on the Sonora road, and go round some seven milles to get to his place, though really only four miles from town. I enjoyed anyself much with hina, for he's a splendid fell im. We lad long political chats; he is a Union man of the first order. The priacipal claim is the
eurera \& Elizabeta consolidated.
This claim coutans 6,000 feet and is incorporated. The main shaft is down about sixty feet, with good indications. When I was there they had a tremendous boulder on the bottom, but below that, as is often the case, they will fiud, I think, a very favorable change. On the same range comes the
argentem,
In this claim there are 3,000 feet, not incorporated, and 1 believe, principally owned by San Francisco men. The work has been suspended for some time, although the oldest claim on this range, to complete certain preparations, and will soon be renewed. Next and last follows the
ноге.

There are 4,500 feet in this claim, not incorporated. The shaft is $3 \overline{5}$ feet deep through a very hard rock, but of a good character. Water is now appearing which indicates a change All these mines are strongly developed. They lie in a direol line four mil s north-east of Copperopolis. and the water 0 the entire district falls into the Calaveras River, not the Stanislaus. In the croppings, native ore is found. The mai is closing, and I must close. I desire, however, to say mor of this rauge.
I find the Mining \& Scientific Press, is appreciated here and subscribers are coming in. Tomorrow is the Judiciery Election, so I suppose I will get a day's rest.
L. H.

Copperopolis, Cett. 20, 1863.
Pactric quartz Mining Coxpany, Grass Valley.-Gras Valley. Nevada county, has long been famous among Càii fornia mining districts for her rich mines of gold, both it placer and quartz. The Allison Ranch mine is famous th world over, and is generally set down as the richest gold min ever worked. The Messrs. Watt \& Oo., on Massachusett Hill, are working a mine which is probably not at all inferio in value to the Allison Ranch, and only about a mile and half distant. During the past two years a company know as the "Pacific Quartz Mining Co.," have been opening mine, almost directly in the town of Grass Valley, whicl to all present appearances, bids fair to rank fully equal in es tent and yield with either of the two first mentioned. Th mine has been opened to the depth of 300 feet below the be of Deer Creek, which it crosses, and at à depth of 240 feet, gallery has been opened a distance of about 250 feet, the roc from which has proved of a richer average than that take from any lesser depth. This gallery has thoroughly provs the value of the mine. About 2,000 tons of rock bas bet taken from below the water lovel of this mine, which has ar
raged fully $\$ 45$ the ton，constantly improving， with its depth．The hoisting und promin spparatus has hithertu treen driven by a twen $t y$－five horse power engine，which bowever，is now to be supereaeded with one of langer capucity．The stuck of this Uompany is di－ vided inte 60 shares，nune of which to our knowledge has ever clianged hands．In addition to the three already mention d Girass Valloy postesses several thers whit h
 clase mines．If 㒀：u－ia $\quad$＇＇uck a poc：
 the norther lis．omty of Unar lawer：allery rom which hey took ahtout \＄i，11 10．

## ARCHITECT， <br> Cor．Montgomery and Bush Streots， <br> Ovor the Murcanulo Lbrary Roums． Sun Frumeliso

## A S S A Y S ！

Promptness and Accaracy Secured
By tus Use of the Most Improved Metiods of A NALYSIS

Advantageons Terms for Prospector＇s Clubs and Mining Compauies．
J．H．CHURCEILL，MI． $\mathbf{A}_{1}$ ，


RIEHN，HEMME \＆CO．，
ASSAXIRS． Office，Montgomery streat，cor，of California

Assays Made of ores，Minerals and Metals：
reperred wite prayisson to

Crass．F．RIEAN，Late E．s．Brancu Mint，gives Leensous in Asxeypigs，alse in Mheratogy nut Chemistry as lar as re

EXCELSIOR IRON WORKS， 712 Sansome street，

GALLAGHER \＆KENNET， Architectural and Ornamental Irou Work

 bing doue with promptucss，ind a
Ordcra trom the country prompty attended to．

## New Style of Ladies ${ }^{\text {s }}$ Buckie！ <br> W， $\mathbf{B O H M}$ ，

Inventor and Patenter．
THE SUBSCRIBER HAVING OBTANEEDEETTXRS PAT． ponstruct Ino of Ladies＇Buckles， 1 now ready to fur－
uish the same in cerery varicty of style．This buckle poskngen sevoral very inportaut improsements over any pther in inse， The iuvention having been crarofully examined at th patent oflice，bas ben adjudged to ber useful improve－
neeut，and Leters Pacent nave pecn granted for 17 years．
nexelis all other buekels in －excelis all other buetels in
Userulness，Strength and Appearance． The Public is resplectully invited to call and cxamino
thla Butkio at the Jewolry Establiahmeut of 621 Washiugton ERAVERAAN \＆LEVY， B07 Montgomery Jiskeret，Ban Trancisco． Firepet，san Trancisco．
TLOBRG
\＆COXRAD， 18 I str er，Sacramento． Every Bucklo sold，stamped＂W．Bolhm，＂will be jy 27 W．Bо日M，Patentee，

## TIEE

BRYAN BATTERY．

The vast interment involved in the reluction of ores on


 vearm，hian been aot down as a fallure．The Ordiaary

## ALONF STANDING THE TEST．



## METIOD OF CRUSIING ORE．

Tbs likyan Raterry，ne now conntructed，is belioved


## EXCLUSIVELY ADOPTED

ly many of the moat prominent Mining Companies in the country，and have been，for the thrue pint yours，sub－
fected to the inost severo of all teats－lhat of constant uxe－mud in every aso have been promouncod

Effective，Sebstantial and Reliable．
Thacy are noss extonaively uned throughnut the
 equal ed in uny ploce of miving machinery．
 And．consequratly．are not affectel by the internse hent
and ily

BOTH WET AND DRY CRUSHING，
and are warrnnted to reduce，with the same woight of
Stampe， 25 wr ceut，more rock than any other mill ju Lise．Each Battory is complete in itself，and forms $n$
und perfoct inil＇－while nnv number of them can bo atded
at a subueqent thme－thus preserving the symetry and at a subweqent thme－ih
aniformity of the Mill

Aasn pyldence of the Incressibg faror with which
these mulk are recrarded．we would mention that tho these malls are regarded，we wnuld mention that tho their works in 1800 ，aud have bect adding a number of
Butteries，cach subsequent year，until they now have Nineteen，running Seventy－8ir Stamps，

They are perfectly fitter and ret up at our Woorls，be－ ore shipping，cach picce heing marked and numbered，
so that they can br put up nad get at work in ten hours after ariving ou the gronnt．Thuy are made of two ni－
zes，four nod fre Stamplech．The Four Stamp
gat Batery weighing complete about 6,000 pnunds，
aad the five Siann aboul 7.000 ．The Mortar Bed leillg and the Five shann about
cast in fectious，when dearen，so that Mo mills can be packed over any mountain road．

We annex the nnmes of, few well known Companien Who have adopted them－runuling froun fur to seventy－ ive stamps each－to whon refereuce is made

Ophir Mining Co．，Washoe Valley， San Marcial Co．，Mexico， John D．Winters \＆Co，Esmeralda， Crown Point Co．，Gold Hill， Potosi Mining Co．，Ti givia City， Tajo Mining Cu．‘ Mexico， Sheba Mining Co．，Humboltd． Lotta Mills Co．，Coso．
American \＆Mexican Co．，Mexico Sin Carlos Mining Co．．．Owen＇s River， Union Quartz Co．，Aurora， Triunfo Mining Co．，Mexico， Napa Quiatz Co．，Aurora， Petaluma Quartz Co．，Gold Hill， Francis Mellus \＆Co．，Slate Range W．R．Churchill \＆Co．，Mexico， Willow Springs Co．，Coso， Hews，Howe \＆Co．，Rich Gulch Flat， F．A．Benjamin \＆Co．．Mexico， O．J．Parker \＆Co．，Nicaragua， Gibhons \＆Clayton，Esmeralda， Smith \＆Clouser，S．F．Reduction Works． Amagoza Mining Co．，San Bernardino，

MANUFAOTURED ONLY BY
GODDARD \＆CO．， At the Pacific Iron Works． SAN FRANCISCO．
af 125 to 136 First strect，and 126 to 144


Oregon street，between Washinghm and Davis and Fro

## －a mafrectureve of Elire Proof Doors and

 place on the Pucife const，attended to with promptuess and dispatch．

Mr．Sims Appreciates the Past liboral patronage of his friends，aud trusts that be may

For the Informition of Strangers he wonid say that he feels coufdent that his experi ence in lis praticulur calling is surpmssed by nope on this coast，which his sulerior work，sent to aimost cye
ry town in this state，Oregun，alen Victorin aud the Sund ry town in this state，Oregon，alen Victorin aud the Sund－
wich Islatuds，and to be seen on some of the best buld－ iogs in Sad Fracisco，fully attosts．A largo assortmen

## LEANDER RANSOM， Civil Engineer AND

## SURVEYOR，

## Having been connected with the public works

 of the State of Ohio for 20 years，aud the pubs surveys of the State of California for 7 years．
## ALSO

## STATE LOCATING AGENT．

And as such baving the sale of 600,000 ACRES OF ST＇ATE SCHOOL LANDS，
At the low price of $\$ 1,25$ per Acre． Terms－Twesty por cent in cash and the belance on a credit of several years．
OF FICE， 328 Montgomery strects．

## D．NORCROSS，

Manaonic Temple，No．©，Post stivect．
Military Geods of all Descriptions． Navy Trimmings and Enbroideries． REGEALIA FOR ALL ORDERS．

## FOR SALE．

Patent pressed russia tron minting pans， Russia Iron Quartz Screenh fror Mills ；
Portalile Forena ：Culdron Ketile ； Portaille Forgas ；Cuuldron Ketties； Pumps，both Franee und Lart
Lead Pine ；Rubber Hose ； Lead Pine；Rubber
Wrouslit Trou Pipe ： Wrought rou Pipe；；Play Pipes；
Bub Cocks；Couplings；Plas
Couking Stoves add Heaiug Stoves： Cooking Stoves and Heailug Stoves； Tla Plate：Sheret Iron；Shet Copper ； Fruit Cans of Various Kinds：
Lard and Buther Cani or ali sizes
Irou Wire：Brass Wire ；Copper wit


## We aro also manufacturers of the

UNEQUALLED
MONITOR COOKING STOVE Or RANGH， For Hotels．
To whioh we call particular attention， je－20


G．E．MOORE，
Assayer and Analytical Chemist，

 addospuach．Het Whate，Gumbos，eto．，with accuracy



－sep14

## PEOPLE＇S

OPPOSITION
Steamship Line！
 caragua Route unth rurther notice．

## Tin Fast and Favorite Inouble Engline Stcamahip，

MOSES TATLOR，
J．H．Blethen．．．．．．．．．．．．．．Commindeb Will be dispatdh for PANAMA
From Mission street Wharf．
SATURDAY，－－－OCTOBER 3， 1863 Connectiog at dupinwalt，by the Punama Hailroad，with the Splendid Stermshlp
1Lhivois ．．．．．．．．． 2500 Tons．
The Mooses Taytor，sinco her lapt trip has undergone the unst extens：ve repaife，Her dich．Have been cre． ＂painted throughont－milking hor accornodations equal any steaneer in the ocena．
O． 407 Wushington Street，K．ROBERMS，Ag Ron
Sin Fraurinh
Ophesite the Post Office．

## BOOK KEEPING， Penmanship

COMMEROIALOALOUIATIONS， Taught by J．S．LUTY
PRACMCAL ACCOUNTANT：

305 Montgomery Strect，Conner or Pine．

## TO QUARTZ IUNERS，

 eximine my improved A Analgamator．It is ulquestion－
nbly superior to unytine
 will namalgumate over three tons a day，By the motion
of the revolving muller，the pulp is drawn chrough its of the revolving railer，the pulp is drawn hirough his
centre and passecs under it，between the griuding sur－ centre and passes under it，between the griudiug sur－
faces，to the circuaffercuce from whonce il passes again faces，to the circuaffereuce：trom whince it passes again
over the mul leer to the contre，hirough the holes nat bo－ tween the griuding surface to the circumference as be－
fore．Thus a constant circnlation of the pulp is kepu up， briuging tho partieles of ore again and again unrier the muller，and reducing the thole mass to an impalpable
powder． No quicksilver lies between the kurfacers to be ground， but at the cir rumiference and eentre of th pan where the metal must pass turough it ass the pulp crrculatea，
A matent was granted firt this Amalgamator in no－ cember last，und all peremis are agail warbed aqaiogt －Wheeler＇s Amalyamutor，＂，as they are an infringement on my patent，mind a sult is huw prandigs in the U．S．Cir－
cuit Court aggant the parties infriuging．My Amalea． mators can be seen ruming at Thonalue＇s Foundry，where all can juige of their operation and the very superior
atyle to which they are botug mannfactured．
PATOMエZ

## PATRONIZE home manufacturies！！！

James Longshore， Trunk and Valise Manufacturer， 30z Sansome Sreet，under Tehama Honse．Trunks and
Valises，Wholesale and Retail，Fine Sole Leather Truuks， Valises，Wholesale and Retail，Fine Sole Lenther Trubks，
Valises，mud a Gine assortment of LADIES＇TRONKS con－ Valises，Mud a ane assnrtment of LADIEs pronk
stuubly ou hand．Trunks covered and repaired．

## Giffards Injectors，

$\mathrm{F}^{\text {OR SUPPLLTNG BOIT．ERS WITH FEED WATER }}$ F without Pumps No Mh12 or Mining Company send for a Circular．DAyid stompart，Agent．

## APARTMENTS．

FURNINEED APaRTMETNS WITH，OR WITHOUT， Washinkin strcet．Persons desirous of a respectany
jome will do well to apply．
bome

THE OWEN'S RIVER REGON AND CANAL COMPANY. It gives us pleasure to notice the vigor which the 0 wen 's Fiver Canal Co. display in the prosecution of their enter prise. Altlough the Company was only incorporated on the 26 th. of last August, a large amount of the stock has been taken, and tools, provisions and camp equipage for thirty mien, have been forwarded, via. Aurora, through which place, they passed some ten days siuce.

We have examiued, at the office of the Company, in this city, the maps and surveys of be Coontry including the map as made by J. E. Clayton, of the line of the Caval, and show ing many of the prominent lodes of the Russ anil Iuyo Districts.
From the best information we can obtain of the character of the mines and the many advantages they possess in the way of cheap facilities fur working, possessed as they soon will be, through this Canal Company, of au u limited supply of water power at a mere nominal rate, this must soon be come an important miniug district.
As the Company proposes to charge only one dollar per stamp, rumniog time, for motivep ower, it will be readily sern and uuderstood that lodes paying not over $\$ 20$ per ton will be worked at a profit, or in other words, ores from all the mines can be worked to as low a grade as $\$ 20$ per ton. There are also other adrantages which this country possesses pver Reese River, Humboldt, Washoe, and Esmeralda, in the large anonnt of agricultural land in the valley of Owen's River, immediately adjoining the mines, and in the superior milluness of the climate, this region being neither so far south as to be burnt and scorched with heat, nor so far north, or so much elevated as to have snow to fall and lie over twelve
bours after falling. Cattle remain in good condition. all the year round in the open felds; and the Winter is the most favorable seasou for work, and freights are taken at lower rates in the Winter by the way of Los Angeles, than at auy otler time of the yeur. Freights can also be taken at all seasons, from Tisalia, at the same rates.
There is now a steady stream of immicrration pooring into the valley, from all quarters. On Tharsiday of this weerk, a rompany of thirty farmers, mechanics and miners. connected with some large capitalists, of this city, leave Brooklyn or San Antonio, across the bay, for Owen's Yalley. We have also beard of several smaller parties recently going forward.

De Bend City and Sau Carlus, the principal settlements in the valley, are being rapidly built up with stone and adube houses of the most substantial cbaracter, white all the indicitions for permanency, show that this country is steadily progressiug.

The people of that district hare never as yet attempted to raise an excitement by newspaper articles, yet it's fame, aud name is being spread abroad, and we look for quite an excitement and rush to Owen's River at all early day.
The Onen's River Caual Enterprise is one of the highest importance to that region, both as regards its mineral and agricaltural development. To the miner it affords cheup and convenient power, aud to the agricaltnralist abundant facilities for inigation where needed. By its cheap power, many mines which could nerer pay the expensés of steam, may be wrought wih profit, and thus give emplogment to thousands of miners, which would not otherwise be brouglit iuto that region, to be fed by the farmers of the ralley.
A small outlay only will be required to put the work in a sufficient state of forwarduess, to get their sawmill in operation, the income from which ought to be nearly if not quite sufficient to construct the balance of the work within a reasonable length of time. As an investment, few schemes presenta more farorable basis and the terms upon which its stock is offered are liberal in the extreme, as will be seen from the Company's advertisement in another column... We feel free to speak of this enterprise as we do from our favorahle personal knowledge of its projectos, frow the information within the reach of any one with regard to the feasible nature of the scheme, and from the fact that the undertaking is one of public interest, as an important initiatory step in the development of a large and valuable region of country, upon the extreme Eastern boarder of our State.

Abour two millions of treasure were received at San Francisco, from the interior, duriug the ten days preceeding the sailing of the last steamer.

IMPORTANT DISCOVERY.
The discovery of a remarkable Salt Spring to the nroth of Virginia City was anounced a short time since. Mors value should be attached to this discovery than it has generally oltained. Salt, apart from its domestic use, is an indispensible requisite to the reduction of the silver ores of the Eastern slope. At first the article was trausported to Virgiuia city in large quautities from this city. Some two years sinco large deposit of mineral salt was discovered in the Walker's River region, from whieh point the reduction works of Wasloe have since been chiefly supplied. This loposit, howerer, is at a great distance from the chief point of con-sumption-some 180 miles - and for the most part over a very rongh and heary road. At a more recent date we have all heard of the wonderful salt deposit between Humboldt and Reese River. .This latter discovery, however, is more remote frem Virginia City than that of Walker's River.
The latest discovery, however, and the one to which we designed, mure particularly to refer, at this time, is located about sixty miles north of Virginia City and sume twelve miles east of the California State line, which latter fact ind. ced the proprietors to name the location the Boundary Line Salt Works. This-discóvery consists of three s,rrings within the circuit of a few feet, the waters from which may be easily connected. The main spring alone yields a regular flow of about ten or twelve inches, miner's measure. The salt held in solution liy the water is equal to a fraction over one half its buik and yields a salt chemically pure-a very important consideration, whether used for ore reduction or culivary pflrposes.
The chief value of this discovery consists in the facility with which it may be delivered in Virginia City and neighborloond, the puint of chicf consumption of the arsicle on the Eastern slope. The spriugs are lucated near the Eastern fout of the Sierra Nevala range, and a fine natural road upou a level alkaline basin may be foumd vearly the whole distanco from the spriags to the Truckee Meadows, from which poiut Virgiuia City is reached over the Tru kee Turnpike.
The proprietors conternplate, the early erection of evaporation rats, when they will be able to lay down a superior article of salt in Virgiuia City at about half the present price of the article in that market, and still leave a large margio of prufit.

## $\left.\begin{array}{l}\text { Lixe House Mising District, } \\ \text { Nevada Co., Our. } 18,1863^{3} .\end{array}\right\}$

Mr. Entror:-I ask a place in your valuable paper for a fer nutes takea during my ramblings through this and adjoining mining distr cts. I find that the exeitement of three munths aco has sumewhat abated, and that the owners of cupper claims, (none . thers are thought of here.) have ceased ruming alter new claims, and have turned their attention nore to develupiug thuse already located; still there are a large number of claims that have been located but never yet prospected and now liable to forfeiture, whilst others have culy done work enounh to secure then. One hundred dullars expended upon a clain will hold it fur two years. Among the claims now being worked, I will mention a ferw. The Houker is being worked with good prospects at the depth of about 90 feet. Stock in this Courpany is sulught after by those best acquaiuted with the claim. "No Chance at All" is being worked with fair prospects; ; also the Manmoth which bids fair to pruve valuable. The
Last Cliance is still at work with an improvement in the Last Cliance is still at work with an improvement in the
appearance of the Ore. They have sacked some but. I believe bave not yet shipped any. The Eureka Consolidated Company, on Ggeen Lead, isa at present taking out very good ore. The rein is increasing in thicknessay have a uuraof tons of first quality ore alreally sacked, and I understand intend to commence seading it off to-morrow, and will continue sacking and shipping as fast as ores are taken from the mines. The still House Lead, on Bear River, is reported good. I hare not yet seen it. The Well Claim is still being wurked with very fattering prospects. After sinking a shaft over 50 feet, ( 49 feet of which was through solid ore, follow ing the east or hanging wall,, they have run a drift or tunnel westward, with th. intention of finding the west wall and thus ascertaining the width of the vein or ledge. This dritt las beeu pushed thruagh a mass of mineral for sixty feet, withuat yet striking the west wall, thus proviug that the vein is at least $G u$ feet wide, with prospects of a sill greater
width. The Company have already shipped aboit 180 tonis of ore, and have a plenty left.' They are now taking out and seuving off ore as fast as tenms can be had to haul it to Lincoln. froin which place it is forwarded by rail-road. :From outward appearance the Conpany are well prepared for a
Winter's work, having a good whim by which they can haul Winter's work, having a good whim by which they can haul all the ore and water out of the mines, with one horse, with ease, and the works are all covered with a good, substantial house to protect them from the rains.
There are a number of other claims in the ricinity on which work is being done-some with very grod prospects' but I must defer further notice of them for some future time. Prospretor.

The Palmo Shuyer Mintmg Company filed their certificate of incorporation on the 17 th. inst. The first Board of Trustees are Edward Tomkins, D. S. Lord, Wm. Faulkne , L. P Fisher and Joseph Fian Doren. Capital Stock, $\$ 240,000$ in 2.4no shares. It is located in the muncipality of Ryan, Ures District, Sonora, Mexico. This mine of silver petauque metal has the reputation of being une of the richest mines in the State of Sonura. It is in the Sierras de la Palma, near the Aroye de li falna, where there is a fine water privelege and Hacienda, with twelve arrastas belonging to the mine; also an abundance of wood and pasturage land.
The mine was once wurked by the Muntezumas and afterwards by the old Jesuits, whose history of the mine, as is seen in their manascripts or Church records, states that the metal pays 100 marcos per balta. or 800 ouvzes of silver to the 900 pounds of ore when worked in the common arrastra or patio process, with the simple use of quicksilver and salt. 'The mine has always been worked in the primitive style of going to the top of the hills, and sinking, and packing out the ore on the backs of the Peons and leaving Pillars which consists of three fuarths of the whole mine. The lower Pillars are in good working order yet, all iu metal. The present Conpany have started a tunnel which will strike the vein below the old works, where they will undoubtedly find the class of metal last obtained from the mine, some thirty years ago, and known as blue petauque or cobre gruisa, the richest class of silver ores.

Nerada and Californa Processes of Silver and Gold Extrac-
tion, by Guido Kustel-Cariton, San Francisco.
It is with considerable satisfaction that we find in this book so much to which we can do inadequate justice this week. 'The material is treated by a writer who has taken to the mine and the mill a spirit of enquiry which was not to be salistied withunt a reply. The result is valuable data for judging of the economy attained, and many suggestions for for guidance in carrying ou the work of improveruent.
The facts in this book will be very valuable to the develpment of the resources of California. There is one point of importance whicls is deserving of the earnest attention of trustees of mining courpanies and mine superintendents. Mr. Kustel writes: "In Germany the roaster works with hands and head, and is responsible for the result. His work can be trusted. Our roasters are inexperienced, frequently, green hands, without the least interest in the result." It may be on this arcount that he depreciates "precipitation
which has been there so eminently successful. I here which has been there so eminently successful. There
"common workmen," says a recent writer, "have attained the facility in perforning it." The problem is to give them such an interest in the success of the particular operation intrusted to each individual as will ensure persevering applicationevery step must be checked, then wanton waste, from carelesso ness, will be prevented.

Poll Tax.-Poll tax it is said must be paid in coin. Greenbacks are not taken by the collectors. The Ophir company at the works in Virginia City, says the Enterprise, tendered the amount of poll tax due from their employees to the Collector in greenbacks, and he refused to receive them. The matter will be fuily tested. The Tax Collector was about to sue the Ophir Company for each and every re ceipt. It is said that the refusal of the Collector to receive greenbacks is founded on decisions given in this Territory, in Califorvia and some of the Eastern States.

Pen Pornts are now manufactured out of the nen metal Alumineun. This metal preferred above any other from the fact that it is not oxydizable.

## THE MINING SHARE MARKET．

The Mining share market，during the past week has ben quite actioe．and not withatanding the udjourument of the toek Buard on Wedmesday，a large amount of husiness has ren transucteal．The recent diepusition on the part of the rrokers to call in aud curtail their luans on mining securitie＇s to had a somewhat depreciating tendency on sume of the adiug shares，while several speculative stueks have mani－ （fted umsal activity and in some instances，an important forovement．
Pphir shares during the past two weeks，have been unusually tive，at materially roduced rates．This depreciation is at－ fibutable，mainly to an inclimation ou the pert of many first hes hollers，to let $\mathrm{g}^{\prime}$ ，their shares with the riew of other in－ fotments．This disposition arises trom the ansiety felt ith regand to the suit with the Burning Moscur，which is bon to have a hearing．
Gould te Curry sales have been light and flu ctuating．The akuess in these shares is attributable to the anticipation of decrense in the next dividund which has been suld．the ant week．for 8140 per fout．If the Octuber divilend is hhter than its immerliate predecessors，the fact will be ow－ y to extraonlinary expeuses，for the receipts from the mine this month will be largor than for any previous mou th ree it was opened．
Burning Moscow has been the chief speculative stock of e past two weeks．Although 1341 shares changed hands ring tlic previous week，this stoek has continued in undi－ nished favor during the past week，with sules reaching 919 ares．
Fillow Jocket has adwancerl $\$ 150$ in consequence of a rorable issue of its suite with the Union．Cunsiderable portance is attached to this decission，inasmuch as it is pposed that it will uffect，to a greater or less extent sev－ 1 other important suits now pending．
Union，Gold Hill，which has been in considerable demand several weeks．at from $\$ 3 \overline{0}$（c）in，suddenly colapsed，the st week，in consequence of losing its suit with the Yelluw cket and is now quoted ut from $\$ 50$＠$\$ 1 \%$ ．
I＇ncle Sam，Gold Ifill，appears to be coming into high fa－ It has suddenly adranced from $\$ 135$（a）$\$ 225$ ．Advi－ 3 Irom the mine are highly favorable as to the future of this im．
Sheba shares which lave been very quite of late，has man stedl a sudden activity．Opening the week at $\$ 70$ they hibonly adranced，nemr the close，to $\$ 160$ ，but fiualy de－ neil to $\$ 227!$ ．A few months since these shares were in Hest in this market at $\$ 420$ to $\$ 500$ ，but for a long time， til within a few days，have beeu dull at $\$ 75 @ \$ 100$ ．It shoen recently ref orted that theyare now taking out from mine better ore than ever belore，and that the vein is in atiug in width．Notwithstanding the＂bore metal，＂ icth 30 abounds in the Sheba，and which fact has been al with tellint affect by the＂bears．＂We feel warranted the belief that the Sheba will yet prove a very rich mine． De sutu has adranced to $\$ t 0$ ．
Baltic，Gold Hill，has fluctuated from 45\％＠，62，closing 357.

## El Dorado is dull at $\$ 70$ ．

Wide West continues to droop，and is heary at $\$ 821$ ， ent assessment of $\$ 25$ included．
C＇tah is a little better，and has sold at $\$ 62$ ．
Real Del Monte sold a few days since at $\$ 470$ ，but is now reely 80 frun．Large amounts of Bullion have been re－ ved in this city recently，from this mine．
Re se River Stocks are attracting attention，but so little yet is known of the real value of the numerous claims red in the market，that operators are somewhat timid in ir parchases．
The Florida is held at $\$ 50,35$ bid．Union．No． 2 is of－ ed at $\$ 60$ ．Diamond，said to be a promising claim，is of－ led at $\$ 20$ ．For James River $\$ 13$ is bid．Oregon is quo－ at $\$ 10$ bid，$\$ 4$ asked．Flora is enquired for at $\$ 15$ ． 5 is offered for Ontario and $\$ 50$ asked．Willow Consoli－ whon is held at $\$ 25$ ．Madison at $\$ 12$ ．Lightner at $\$ 12$ ． fiden Era at \＄15．Austria at \＄12．Marshall is said to be imuch favor，with enquiries at $\$ 40$ ．Mills，Post and hite and Erie are enquired for，the former at $\$ 30$ ，the lat－ at $\$ 25$ ．

## REPORT OF BIDS

At the San Franelieco Minhug stork Board， For tiv weok wuding Oct．17， 18 d ．


## T

## 

## 

Hatum se Surerves
teetra Sevada Dhatroy－－ （3 m m ins Moscow virth limosi Chatlex Castey ＝writmunto
low ： lam：
EL lharato EL lharato
Sortlon． Burasalo lirsilic
 Tille wt the Weat
i．a Qurz 1mpulial
 Whunt Dabillson Cundral
Culifornta California
Kugers．
and Rugers， E
lucune lady Mryan La Crox：
Homs． Portar Cuwn Polnt
Minhatan Hulsoul Lanly E．llen schiller
senera．
in
 Wide West
Huc！otie Altelope
cormerilith innmaralidn
Rnul Dol 350 Rual Dol Bfonto inver Hill
vievelat Veveraifa Hope
Feital Sinuth Urah
Seuny Liad－ Jemuy Liad－
Kalls of Clyi falis of Cly．
numbeatm，s． Gumbeam，
Banbon
fircal Wes Girath West＇Tun． Breat West
Burlicuton
EI liaso
R El lise

Crockot Crockat | Etha |
| :---: |
| cos | Josephine $-:$

Whllow Spre Whlow springs Limplire
Corit）
m ixicas mings． Viun prieta Dioy Padre－
cupper stoct copprer st
Yapulema Jusephine oataforvat stocks Laturel Hill Ehniles Diggiuga Furcka
Fellowes Fellowes
Row River Ro：k Ri
rıa
Itcmboldt stoczs． Bre sutn
Great Bisin

## SALES FOR THE WEEK ENDING OCT．24， 1863.

Uphir．．．．．．．．．．．．．516 Shares \＄1700（＠）\＄1800 per fuo Fallsof Clyde．．．．． 20
Great Western Tun．－
Josephine
Coso．．．．．．．．．．．．．． 48 Savage．
Chollar
 Die Vernon，．．．．．． 20 United Cosmopoli＇，－141
Union，Gr．H． Union，R．D．．．．．． 2529 ＂ Rhode＇s Diggins，． Hale \＆Norcross．． Uncle
Echo．． Baltic．．．．．．．．．．．．．．． 265 EL Dorado．．．．．．． 15 North Potosi …．． 5 Caledonia Tun．Co．． 65 Potusi．

65
40
Yellow Jacket． .15
Smperial． 20
Budie Pluff． Willow Springs Sheba．

4300 ＠ 4600
$\qquad$ 6 11
11／（a） 75
$280 @ 5$
$160 @ 250$
471／2＠671／2
40
39 ＠ 43 960 ＠ 1150

28 （a） 30
3＠3．75
70 （a） 160
35 ＠ 40

Overinan．
Beet A．li．eleher ．．．．．－
sierra devada．．．．． 86
1hamey．．．．．．．．．．．．．．－
Chumang Moscow．． 919
E．Charl＂s C＇aney．．．．．．．－ 12
｜Nurth American．． 391
Bulliou（G．H．）

 110
100
104
10
27 Marison．．．．．．．．． 143 ＂
do Suckeye．
60 ，Lncerne．
lady Byran．
0．Att．Havidson．．．．．．．． 173
To Codar Hill＇lumel ． 390
North ophir．
Real Del Monte．
U＇ah．
Poud．
（irass Valley，
Michiman，
ज．H．
Budie
Blue Ledge，．．．．．．．．．． 10
Napoleon，Copper，．－ Oncida，．
St．George，
Guveruor Nye．．．．．． 25
Table Mountain Cop．
Dianund，R．R． ${ }^{35}$ Jusep ine，Copper．．

80 （a） $87 \frac{1}{2}$
61 ＠ 65

Crntral No 2.-This mine, located on the Comstock leage, Virginia City, and the third in order going soutl from the Ophir, consists of 100 feet, instead of 150 , as it is generully set down in the newspapers. The majority interest of this mine has recently passed into the hands of Mr. Geo. C. King, one of early and prosperous miners of Grass Valley. Under Mr. King's management, active operations have recently been commenced. The Company is now taking out fine looking ore from a drift at the depth of 130 leet, while the main shaft, now 150 , is still going down. The Company has made an arrangement with the proprietors of the Latrobe Tunnel, under whick a branch is now being ran from the main direction of that tunnel $w$ infersect the shaft now being sunk on the Central ground. The ground of this Company will be the first on the Comstork lead that will be opened by the Latrobe tunnel, which will strike the vein at a depth of about 4,50 feet. We look for important developments at this mine, at an early day. Mr. K. appears to be one of those men, who never take hold of an enterprise, except to succeed, and we presume his nsual good fortune will attead him in the present instance.
R. W. FISHBOURNE,

PRACTICAT LITHOGRAPHER, ENGRAVER AN'D PRIN'CER,

## GENERAL NOTICES.

## nom <br> DR. H. AUSTIN, DENT1ST,

No. 634 Washington street,
Between Moutgomery and Kearny, (over San Francisco I have recently recoijed from London a New anc
Beautiful Vulc mite (India Hubluer) for Artificinl Teech which is far superior to any other over nsed. It is light cleasly and durable, and of a natural color. The cheap est and best materinl for temporary (aud iu many cases) permaneut scta, All inperations hioroughly performed
and at reasonable prices.

## D ESKS

Office ${ }^{\text {AND }}$ rurniture,
OF ALL KINDS...... FOR SALE BY
JOHN WIGMORE;
No. 423 California Sx., San Francisoo. office jobbing, of all kinds, attender to.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agrictultural state fair ALSO; FIRST PREMIUH At the San Francisco Bay Distriet Agricultural Fair, 1862 Mancfactory, wholesaik and? retall,

No. 44 Ledisdorf street,
Opposite the What Cheer House, San Francisco.
FREDERICK MANSELL,
mechanical \& architectural
DRACGHTSMAN ,
street, corner of Leidsdorfif

| made forfinarties applying for nst |
| :--- |
| mar 23 |
| Loudon. |

ct, Los Angeles County,
G AGENCY.
N, GENERAL AGENT,
ers," Mesquit Springs,
iness convected with these mines
containing Recthue or Postage
fifty ennts, and cmelosing nn ad-
if fifty cints, and cmelosing nin ad-
eply, will be prumptly nt endelt to. a carefully brenared man, (nnd
lode in the district, a portiou or

 | wis St., Sun Fraucisen Cal |
| :--- |
| $\begin{array}{l}\text { C. W. TAPPAN. }\end{array}$ |

MIYERS, \& CO.,
Fremont Sti, near Market,
\& SCROLJ SAWING.
RAOKETS,
JD BALUSTERS,
CEDAR BALUSTERS - Stairs.
very description of 0 val ,
$r$ and Square
KING GLASS FRAMES
at New Xork Prices.
sing for Building.
H. C. soyes

WS AND FORMS
D BE H. H, BANCROFT ations, Asscamenta, etc., with a Supreme Court and Fcrms for ompanies. Compiled by H. B.
coloth, $\$ 1,50$
For sale at all

## COMIPANIES!

To Let SINGLE ROOMS, iment Block, $\substack{\begin{subarray}{c}{\text { sime and } \\ \text { au-24 }} }} \\{\text { Washiugton sts. }} \end{subarray}$

GENERAL NOTICES

## HAYNES \& LAWTON,

IMPORTERS AND DEALERS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Catlery CLOCKS,
Silver Plated and Britania Ware, ETC., ETC., ETC.

NO. 516 SANSOME STREET
[CORNER OF MERCHANT,]
San Francisco.

## WHEELER'S <br> Amalgamating and Separating Pans.

It is acknowledged by all who have exnmined the principles and decidedly superior for triturating and amalgamating purposes io any other in use.
The most important principle connected with the operation of these lads is the separation of the triturating
process frum th: of extmetivg the amalgam from the process frum th: $t$ of extimetivg the amalgam from the
sand. The chuef cause of loss of the precions metals arisand. from the passing off of the same in cumbination wlith
sene quicksilver, during the pruces of trituration, and in the quicksiver, during the pruces of trituration, and in
cleaning up By the introtuction of the sepurating Pan cleaning up By the introtuction of the separating Pan
tof llow the trituration this loss is entirely arnided. In working these machines there is no appriciable loss one of the precious metais.

Where these rane have been introduced and operated by the side of others on sauds from the same vat, the Wheeler l'aus bave minformly gaibed a large percentage of metruts over its competitors, as werfas a
*** These Pans mau bescen in daily opleration, at the Siner's Fouvdry, on first street in this cily, where a 3016-tf ZENAS WBEEL.FR.

## Wm, P, TAAFFEE,

importer and jobber of
Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francisco.

## REMOVAL.

O Firge of the pacific metal Having eilarged our Works an North Beach we are How ententerl Lo reduce from 10 to 15 tous of Silyer or
uow
Gold rock ner doy. Gold rock ner day.
Gold and Silver Gold and Silver are, and Sulphuret Asfayers', or sil



## NATHANIEL GRAE,

General Furnishing Undertaker,
641 sacramento st., Cor, of Webb,
geo. A. metcalr. sav Franctroco.

METAL F \& HUTCHTNSON'S
PHOTOGRAPHIC GALLERY,
650 Washington st. Three doors below Kearny.
Having refited the abore rooms the Firm are now prepared to furnish the public with a superior kityle of
Picture, at a lower price than ever before offercd in the city.

CARD PECTURES.
As we have erery facility for producing these beanti-
sul pictures, in all ibeir dififerent varieties, we lagye reSul pictures, in all lheir different varieties, we lave re-
duced the price to duced the price to
\$3. Per Dozen!
Large sized Phintographs $\$ 3$-Extra copies $\$ 1$ ench.
AMBROTYPES in all Stries and pricee. OID PICTURES conie3 with care aud nocuracy, in any
atyle desirice.- Particular attention pald to pictures of
Cidter Cbildren.
Piotures painted in Oil or TWater Colors, and retoucled Piotures painted in oil or Trater C
in India Ink by a competent artest.

International Hotel, Jackson Street, ---.-- San Franciseo [A few doors above Montgomery.]
FIRE-PROUF BRICK BUILDING. Most convenient to the
drag, Bosiness nts. \& Places
OPEN ALL NIGHT
City Railroad Cars Pass the Door.
REDUCTION IN PRTCES.
Flies Bathing Rooms attaclsed to the Barber Shop
Warm and Cold shower Baths Free to Gaests.
$T$ horoughly renovated and mewi. fur, Dished this spring. Every Room opens to the Light and Air. Each room is furnishcd with a irst quality
Patent suring Bed and Hall matresses. Tho IuternalionPatent syring Bed nad Hall mattrenses. Tho Iuternalion ollers to guests the greatest number aut

Best Furnisued Family Roons; aud sem as good Adris as any House io the city Iam de termined that ho interastional slzall be the most comfrrtable, best requlated, and in all respects sha
perior to any like estavisilinumt in lur state, and shall aim to merit $n$ contiouance or the ropular favor it has enjuyed ber
Principles
F. E. WEYGANT, Proprietor.

## Tremont Itouse,

418 and 420
Jackson Street
[A fow doors from Montgomery,] Sax Francisco, Gaz
$T$ VIS FINE, TIRE-PROOF BLILDING OFFERS MANY only havan a blockes forme the Post omec and Custom Ho and ubout the same distanco from the priucipal pluces Amuscment.
The City Railroad Cars pass the Door.
The House is conductnd on Temperance Prineiples,
WHICH SECURES TO OUR GUESTS QUIET.
The prices for board and Rooms are very moderateys day, meal or week. Wb solicir A call ron Ali F. E. WEYGANT, Proprietor.

For the nccomrondrtion of my many guests I have
 wishing to put up at ett her house, may take the Tremont or Interuatiunul Hotel Conch and Le Raken to either Houso with their buggage, Fres.
F. E. WEXGANT.

## THE RAILROAD H OUSE.

Nos. 46 and 48 Commercial and Clay Sts. SAN FRANCISCO.
H. T. FELTON
W. C. MINOR,

## PROPRIETORS.

The above House is a Fire-pronf bnilding, with Granite Front, nud kept on the European Plan, with hoard and lodging by Day or Week to sust the convenience of our Patrons.
The fiooms are handsomely furnished, upplied wuth Patent Suring Beds, aud Hair Mattrimees, a fording rery saperior accommodations for tamilies or single persons.
The Table is supplien with the best the market affords at eqrices to suit ine times.
The fail Road House Coach is always in attendance at tho stenmers to convey presengers and their baggage to the Fouse Free of Charge.
The Fense is open all night.
P. M. S. C 0 .

DACIFIC MAIL STEAMSHJP COMPANY' rond with the stcamers of the Atlantic and Pracifta rond with the steamers of the At
Steumship Company at Aspinwall.

FOR PANAMA.
The following Steamships wall be dispatched in the
month of Scptember, 1863 .
Sept. 13th, - - - Steamer Orizaba.
Sept., 23d, - - Stenmer Golden Age.

Will leave Folsom Street Wharf, with Passengers and Treasure, for Pabima

AT 9 O'CLOCK, A. M., PUNCTUAJLY.
And connect. via Yanuma Railroad, at Aspinwall, with teutashl(ef for New Iork,
For Freight or passage, apply to
A. B. FORBES, Agent.
je
sacramento and Leidesdorit.

## FUCNVHRES \& MACHINE SHOI'S.

REYNOLDS
Patont Cut-of and Governor, FOR STEAM ENGINES.
197 of these Invainable Brachines, ARE NOW IN C゙SE
Io Califoraim aud Arvuda ferriury, giveug perfectly Saving 20 to $6 \overline{5}$ per cent of the Fuel.

## Steen's Improved Governor



## Clark'sSteam and Fire Regulator,

## FOUNDRIES \& MACHINE SHOPS.

PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
\$o. 10, First strect, san Franacisco,
Furnish Castings and Machinery of all kinds

Gexuinr White Iron Shoeg and Dige. Palaler, hanscomb \& Co.
To Quartz Miners. rnox's Improved
AMALGAMATINGPAN, with
PALMER'S PATEN'I STEAM CHEST.
The: abuve combination sectras the most

Ingersolls Patent Drill Press,

Falt for Steam Boilers, Pipes, Etc.

## Steam Engines, Boilers, Pipes,

 Hydraulic l'ressca, Eluafthg, l'ulloyn, Etc., at the low
## Auti Incrastation Powder,


L. A. Buth, Eqq., Virsinia City
E. 'I. STEENN AGENT.
Fremoul strect, San Fraucisco.

MOYNIHAN \& AITKEN,
Boiler Makers and Blaoksmiths,
Mission, between Beal \& Fremont Sts, Sau Francisco
N. $B$ All kinds of Bofler and Sheet Iron Work exc euth at the shortest wotico, and on the mosi reasonabl
orma.

$$
\begin{aligned}
& \text { P UMPS! } \\
& \text { HARRISON'S } \\
& \text { California Lift and Force Pump, } \\
& \text { withult ralves or packing }
\end{aligned}
$$

> A LIL SIZFS;
> $\begin{aligned} & \text { Canable of throwing frum oNE HUNDRRED To FIVE } \\ & \text { THOCSAND Gallone per Minutc-Eor sale by }\end{aligned}$
> C. H. HARRISON, Pacenix Oil Wores,

50 lbs. MLARLNE and
Fire-Proof Paint, M Works in this city, tor Hulis and Decke of Vessela

 ethesper than any other paint.

For Heeks of Ships, uss two parts. Mineral Paint, one
part Wlite Ledul, inux with Linseell lill.
 ithree parts miveral Pridt, mix with Coal tar and ppy
For sale by all Ship Chandlern end Tradesmen, in boxe a , in boxe

## 85 POUNDS FLRE-PROOF PAINT.

When used on Ronf, Bulldinga, ir Fencep, it is equa to covering theur with a coat or stune, belpg porfectiy
Fire Proor, ard costing less than any paint. DIRECTIONS:
HOUSE:- Mir thrce parts Mineral Paint writh one part
कhite lead, thin with Linseed oil: if a lighter color is white lead, thin with Linsecd oil: If a lighter color
wiuted, mix his pulint moro leall
ind
 A one cuat whea property alppied will last three yeara.
G. T. Fouqur, Superintendeni.

WORKS, North Eeach; Offce, 509 gac
 are cumtimed ugitnst making, buying, Usimg or selling
th sume withuat his conseut.
W. A. J'ALMMR.

Joun P. Gallagher...................Joreruı H. Tzed.

> GALIAGHER\&WEED,

BRASS \& BELL FOUNDERY
LOCK FACTORY.
No. 125 First strcet, opnosite Minna, next dour to Paeife
Foundry, all kind oo
Brass and Composition Castings and Finishing, done with neatness and dispatch.
C ${ }^{\text {CURCH AND STEAMBOAT BELLS, OF ALL SIZES }}$

 patterus, an hand and made to order.

All Jobs promptly attended to.--Prices moderate.
Removed from Oregon street, between Front and Davia

> Miners' Foundry

## MACHINE WORKS

First Sto, between Howawi \& Folsom, San francisco.

E VERY Descripetion of iron and brase machtin the state of Catitoruia, will be furnished with dis
patch at the Miners' Foundry and Mnchine Works, as: Steam Fugines and Builers, Flour, Saw and Quartz
mill machinery, Mining I'unps, Analgamators, Retorts, Eite.,
Partic.,
Paliven atentinn will be given to the maufacture of Machinery in zections, designed for places of ilificul tors and Wa Ler Whecls-some in oneration and on exhi ** Parties desiring $t_{n}$ test their oren practioally, in
smill quautities will bo aforded ample facilities, free of
cost.
All parties desiring accurate and higliy finished draw
inga and Superin Machinery, at most reasonable rate
HOWI,AND, ANGEL \& KING

## San Francisco Machine

## IRON WORKS!

## Northeast conner Fremont and Misaion Streets.

A LL KINDS OF MACHINEHY MADE TO ORDER O.
Steam Engines, Figh and Low Proasure: Quartz
anje, Saw mills, Mining Pumps, Hoisting machines for mining purpuses, Wine Presses, Agricultural implement
otc, etc, and Castiogs of all descriptions made to order
steam Eugines exchanged and for anle hy
DEVOE, IINSSORE \& CO.
REPAIRING promptly attended to.
REPAIRING promptly attended to.
y1s

## FOUNDRIES \& MACHINE SHOPS.

San Francinoo, July, 1853.

VULCAN IRON WORKS COMPANY

## STEAM ENGINE BULLDERS <br> BOILER MAKERS, <br> Iron Founders and General Engineers, <br> Fo 137 \& 134 Wirst street, San Frazeleco. Pumping, Lulathog, Miatigy an uartz-crusbiug Machbuery. <br> Shoes and Dies of the bardent irun,

Russia irau Puoched Screoma.
Steambat Mnchtnery : Naw, Fhur and Sugar Minl High and Law Presure Boleet's of all styles. Surval and other 'lurbinu Wuter Whele with latest mprovemente.

## W. T. \& J. GARRATT,

 Gity Brass and Bell Founders Cor. First \& Market sts., San Francisco. B aber metal castivgi, Fike engines, FurcePateat Clains - We will furulsh, on application, the claim of auy iuvatutur that lian bernpateatind whin the last lourtoon yeare. The name of the jationtec-dute of patent, when known, and two dullara for copyiag should be acia:
Modurs, -luvedtora will please athech to all model nowt to un, their namen and address, in a legible, por.
muneut form, this will arold confution and proveng mubeut form, this will avold confuntion and provent
orrors. errors.

Drawisas-We have bighly talented and effelent Drauphtamen, hy whom drawiogs of overy dheriptiuns are exechted in tise hest stylu of art, with promptitude, and at a molerate cost.

## WANTED

By a competent perwou, tho secroturyship of four Mintug Compunien. Bouthato be kept at the opsce of the Mfuing anls Scicutalie Press, No st Goverument House. aquire as above.

## SOUTH PARK

Quartz Mill and Reduction Worcs, GULD AND :IILTER OREs WORKED AT REASON.

S. F. CLOLSERR, Secretary.

## W. W. HANSCOM,

## Steam and Mechanical Engineer,

Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., "tc., $A$ Golden state Iron Works,
WARRANTED FIREPROOF SAFES


## LRWIS COFFEY AND RISDON,

 STEAM BUIKRR AND SHEET IRON The only exclusively Euiler Making Establishmont on the Pacibe (vast Owned and wond weted by PractiralBoiler Makers. All orders for New Werk, the repairing If Old Work, executed as ordered, and warranted as
Old Stand, corner Bush and Marker Streets.
Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFET
[HEODOR KALLENBERG
Maker of Models FOR INVENTORS.
 Stumps, Dies and Die Siukiag, Embossingstamp.


## HIRAM WRIGHT, PIGK MAKER,

Han established a Manufactury for the Making of MINER'S PICKS,
NO 1ヵ1 BUSH STREET, SAN FRANCISCO,
[Belween Sansome and Batlery,]
Warrs can be land a superior Pick for Miners use surpervision, be warralts them an being made of the seat materal and by the best workmanslip.
Orders attended to and filled promptly and with dis-
augit
patch.

## WRIGHI'S PICKS.

JOHN WRIGHT, of Sacramento, has estabisned ham-
neif ia San Y'rancisec, for the manufacture of every
Reff in San Zrancisect, for the manufacture of every
descriptinn of PICKS, of the best material, at roducor prices. Picx Eyks of the beat iron furaikhed in any quan lity, at low rates Ordera from the country promptly
attended to. N. B. - None gonuine unaless stamped with
attended to.
my name. B - None gonuine unless stamped wit
JOHN WRIGH'T, 511 Market atreet,
Opposite Bettery, San Frarcisco,
CALIFORNIA TOOL WORKS :
John Weichhart,
All Kinds of Edge Tools, Etc.,

aug x
First Street, San Fraucisco.
Eye, Ear and Throat.

## DR. DE CASTRO,

 Ouulist and Aurist,Whio has PRACTISED NN NEW sudh unrivalled succeess, und from encli place is au pusseg-
sion of the most emineut testimonials, may now be consulced the most eminput destimonials, may of hese delichte orgins, with a view o their permutient cure. I) afness of loog ytanding thosuctety of Luadon approved)
Self-adjusting Artificial Tympanum, For the relief of deafners, attended by lus or injury of
ibe membrana tympuui, und for the cure of discharge Prom the eur-the iuventiou uf De castro, M. D., author
of " Deafuess Practucally Illustrated as to its Nature and
Treatmene" pte
The sulf-adjusiing Arificial Tympanum was irst introduced to the nutice of the profession at the merting of the Medichl Society of l.ondon, ou the 201 h of November, 1883. Au animated discussiou cosued on the reading of the paper, and scyeral membern of the suciely bure testi-
mony to the success of the remedy and the importance of tbe oriyinu discovery.
Mr. Baiker Brown (inember) bore testimony to the SelfAdjusting Arlificial Pyayanum, as be had ubserved the immense bentit a young lady iriend of bis had received
from it. She was in fact, quite deaf, and in a most mis-
 eus-quite like a ulracle. Five more Lentinonials trum
ousembers of the Medical College, New York, aud the principal ehies of Europe. Kearny strcets. Entrunce on Market street.

Mo Mr. Enitor-Huving been nfifited severe cold, aud for the last monih sultering from the nost excrutiating pains in my ear, I wha ubliged to come recomeudatinn to wait on Dr. De Castro, no the corner of Kearsy and Market atreets, and underwent one operation nul it is with the utmont pleasure I can bay my hearing was suddenly and withont paia catirely rentored, 1 deem it iny duty oo mase this known to the bublic, and to re commend Dr. De Castro's akil! ns an auribt. San Fraucinco, July soth, 1863.

> [From the Dasly Alta.]
san Fradeigeo, June 80th., 1868.
Ed'rs Dancy Alta:
Permit me through your widoly circulated journal, to say, that my daughter Sury Ellin, has been alficted with has been a member of the Jeal and Dumb Iustitute since it was organized. On rakiog her to Dr, De Castro, on the corner of Kearney aud Market Sireets, and undorgoing under his direction, two operntinus, slie has heard snuads
very distinctly; and is now, Iam happy testute in a falr very distuncty; and is now, I am happy te stute in a falr
way to get permoneut relief. The result, thus far, is sat-
istactory; and I deem this notice due to Dr. De castro for istactory; and I teem this notice due to Dr. De Castro for
his shill; and would recommend ali pirtiee similarly aff
flicted to give hima trial My dughter has at different times been under the caro of the most skiful physiciuns
and aurists in California, but up to the period of risiting Dr. De Castro, received no benefit.
CHAS JOAN P, WBIGHT,

|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | A. C. MORSE, Mining and Real Estate Agent; <br>  <br>  alda District |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| $\xrightarrow{\text { seppld }}$ | Utica Gold ds Silver Mining Company,uflice. 6:8 Nuatgumery shreet, Sun Fiatucus. Supt, 18, Ofitee1863.$\qquad$ |  |  |
|  |  |  |  |
|  |  |  |  |
|  neplatim |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  | ARMSTONG \& WILDER, viranta ctry, W. T., |  |
| Silver Butte Consolidateal Silver DInBulte Cohsulidited silser Muing Company will be luld <br>  tual attendancu is requested <br> San Frapcisco, September 29,1868 IT, T.MORE, Secretary. |  |  |  |
|  |  |  |  |
|  | Fire Hose! Fire Hose!! Fire Hose!!! J. P. D. WILKINS, | LETTERS OF ENQURTY | ORES AND MINERALS. <br> In ingge ur small quantities. for such Experienced Treat- |
|  |  |  | ment by the $\qquad$ CAREFUL ANALYSIS, |
|  |  |  |  |
|  |  | . C. Sanborn \& Co. |  |
| Company-Notice is hereby given that at a mectiug of the Tru tees of the Dona Corolima Golu and Siver Mining Company, held this day, an assessment (No. 2) of Gfy |  |  |  |
|  | THE ONLVMINTYG, NECHANICAL AND SCIENTIFIC PAPER ON THIS CONTINENT. | $\mathrm{O}^{\text {park sidver minigg stock, }}$ gotin \& curry minies stock, choilarar mining stock BOUGHT \& SOLD. | $\mathbf{M a}^{\text {ake liberali advancts upos the ores of }}$ M |
|  | Thitid year: Volune vi.new ser |  | Copprr, Sillyer, Tin, Niokkl, Cbbali, Zinc, LEAD, AND SULPHDRETS CONTANING GOLD. with Silver and Copper Ores, aud advances made ti |
|  |  |  | a mination, auch leads are <br> OFFICE, No. 1, ODD FELIOWS' TACL Je1-tf Montgomery Street, SIa Francisco. |
|  | $\begin{aligned} & \text { Will find it an excellent medium for the purpose of } \\ & \text { briagag his invention into notice, of ascertainiag the } \\ & \text { progress of invention in this and other countries, and } \end{aligned}$ |  | MARTIN \& Co., FFicc-..224 Montgomery street, Tp Starss, whil contract for tier |
|  |  |  |  |
|  |  | L. F. LELAND, |  |
|  |  |  | Assaying 8 per cent and upwards of Cmper to the <br>  |
|  |  |  | aignments if desired by the consignors.Henry Marin, $\quad$ J. F. Greenman,Now Yurk.San Francisco Poat OAfica, Box 1259.je 1. |
|  | nals from all quarters, from which we sball continueto extract whatever may be oi beaefit or interest toour readers. The Mining Interest! |  |  |
|  |  | $\frac{\text { For the Purchase and Sale of }}{\text { A ENOT }}$ | H. C. KIBBE, |
|  |  | MEXICAN MIININGSTOCKS |  |
|  |  |  | Commissioner for Nevada Territory, 542 sacramento st., cor. Monigomery$\qquad$ (arvory hall.) |
|  |  | All persons are invited to call and examine Ores from the above miues. fel3 Wm. FAULENER. |  |
| AGENTS WANTED <br>  |  |  | NORTH BEACH QUARTZ MILL REDUCTION WORKS Are prepared to work Gold and Silver ores, in large or Working assers made of small lots, and all kinds o ores crushed at short notice |
|  |  |  |  |
|  |  | Yellow Sheathing Metal; Copper and Composition Nails; <br>  |  |
|  |  |  |  |
|  |  |  |  |



## REMOVAL.

The Office of the Minisid and Smentifie Press, has heen removed to liombs Nos. athand jo (iovernment Hultse, ce ner of Wisthington and samsone Streels. We have been, short distance from Placerville, to the north, and on the induced to makn this change of lueation, nut unly with the American River. One of the richestehains in this district view of securine mir pom and buther accommotations for the New Fa Dorado, has been tied up in law for nearly a year ourselves, hut chiefly to better accommotate persons hating The case will soon come to trial, however, and the quastion busheres with the oflice. Uur lucation is now central, cass of title so sethed that the work of opening and developing of aceess, and in the direct way of the chief travel of the the mine can nnce more be resumed. The New Yurk Co. city to and from the l'ost Office.

## SALT AND EALT MINES.

One of the facts of scientific interest bronglit to light hy the Sonthern rebellion is the discurery of an important deposit of rock salt of remarkable purity in the island of Petite Anse. in Vermillion Bay, on the Gulf Cuast of Lonisiana. Silt springs had been known on the island from an early period. but no suspicion existec of there being ruck salt near t e surface until the late owner, with the view to improve the flow of water from one of the saline springs, cansed an excavation to be made, when at the depth of oniy finurteen or fifteen fiel from the surface. the laborers struck a bed of white rock salt, which they at first imagized to be ice. 'l'bere was no moisture or brine in the deposit, the salt being cumpact, hard and perfectly dry. It was at once recognized, and has since proved of incalculable adrantage to the Confederates, as well as a source of great wealth to the owner. The above facts. as condensed from an Easteru exchange, should be a matte of great encouragement to the owners of the "Salf Spring," noticed in our last issue as having recently been discovere in the ueighborhood of Virginia City. It was with no littl surprise, when conversing with one of the proprietors of this spring, a few days since, that we leaned that no efforts have been made to seek for the depusit of rock salt from which this spring, of such intensely salt water, must flow, The locality of the ground and other circumstances are such as to lead to a reasonable supposition that a very slight excavation would, undoubtedly, lead to the most valuable deposit of rock salt ever discovered, and that too, at probably a mere moity of the expense which would be required for putting up the necessary wo ks for evaporation, ete., which must otherwise be done to render the spring available.

If our memory serves us, it is now several months since this discovery was anounced, and jet, as we learn from jarties acquainted with the locality, no steps I ave been taken to turn the same to profit. Perhaps the owners are not aware of the prize they bave fouud. It not, it is to be hoped that some enterprising capitalist may step in and torn to profitalile account a discovery, which mnst soon hecome of great importance to that region. The consumption of salt in the aeighborlood of Virginia City, for domestic and chemica purposes, is already very large and must soon become im mense. Its production at so convenient a point ought to oring about a most important reduction in the present price of the article, and lyy so much, will it become a public beneit to the district, besides a large source of reveuue to its for unate owners, whoever they may be.
who hold an extension of this lead, are now cruslting 25 tons of rock per each 24 hours. Their stock is selling in this city at $\$ 150$ per share.
The IIarmon fold and Silver, Mining Co., which is now almost daily gloterl in the stock repurts of this city, is also
claim were Kpnney of IIarmon. Who have worked the claim constantly with arastras since 1853. They have recently sold three-quarters of their interest to San Francisco capitalists, who hare organ sed the present Company, and are now putting up a 15 -stamp mill, to be run in connection witl? a set of Eddy's Flectrical Amalgamators (using Whefler's Pans.) the whole to be in operation about the middle of the present month, and to be driven hy a 25 -horse power engine. They have a 40 -foot shart on their ledge, the rock from which is paying from $\$ 25$ (C) \$30 in the arastras. They are also running a tumnel to the vein, through which ore will be Iaken direct to the mill, Mr. Charles W. Mualthorp is the Superintendent for this Company. This stock first made its appearance in this market. some three or fom wecks since at ahout $\$ 2 \overline{2}$ per foot. Since that time it has been gradually advancing until to-day we quote it at \$52. They have about 250 tons of good pay rock now on the ground, and will continue to increase their supply of ore until the mill starts. The business office of this Company is at room No 11, Atheneum Building, in this city.
The Niagara, north extention of the Now York, is highly poken of. They are soon to have 100 tons of rock crushed as a test of the value of their mine. 'The Dardanelle, west exteution, recently took $\$ 1,300$ from 10 tons of rock crushed at the Poverty Point Mill. The St. Louis is located in the same neighborhood, also the Quartz Mountain with 600 feet of tunnel and the Massasoit, "with 25 tons of rock ont and ready for crushing. The Baltic recently made a trial test of their rock with a result of $\$ 22,50$ per ton. This is one of the most promising Quartz Mining District, in this State.
The New Mecmanic's Institutr. - This new building wa formally opened to the members on W ednesday evening last. Quite a large number were in attendance. We looked i vain, however, for the presence of many who should have heen there to have given their moral and material aid to an enterprise which promises to be of such sital importance to our city and state. : The Library of the Institnte is quite large and well selected, and we doubt not that as the long winter evenings apiroach, this place will be a favorite resort for the mechauics of this city.
A church in Prussia, holding 1000 persons, has been constructed, statues and all, of papier mache.

## COIPER IN ORIEGON.

Dr. Paul d'Ifeirry. a çentleman well known in this city, has placeal in om calinet several tine samples of copper ore from a lead in Juscpline Comenty, Urego , known as the "Queen of lironze." One of these specimens consists of the ordinary yellow sulphurets, the other diffirs materially from any copper ore we have before met with un this coast. It is an antimonial sulphuret of coppler, alud is found in imurense masses, as an watcrop, corming a fine ledre, four feet thick, of sulphurets. The company, which is a private enterprise, under the suprerintendence of Ihr. Heiry, owns, besides the one above described. another, and a parral el ledge, about three hundred fect distant, with a well defined lead of sulphurets, 14 feet thi $k$.

These ledipes mun due enst and west with a perpendicular dip. They are located just above the California State line, and about sixty miles from shipping at Cresent city. The proprictors intend to erect two everberatory furnaces upon their mine, early the ensuing Spring for the purpose of reducing their ore to rergulus. A smelting furnace will subsequently be added in which the regulus will be reduced to ingots, before shipping. The Dr. informs us that an abuudance of most excellent material is found upon the spot for making the firebrick which is necessary for such furnaces. There is every indication that the mines must soon become very valuable. The contemplated experiment of smelting the ore at the mine is quite an interesting one at this time, and we shall watch, with much interest, for further result.

The Refugin Minixg Company.-The mines of this Company are located in the celelrated Jesus Maria, of the Sierra Madre, in the State of Chihuaha, Mexico, and about 250 miles from the port of fruymas. There is a good wagon road two-thirds of this distance, with a pack trail for the other third. Freight for this city costs about $\$ 100$ per ton. A stean engine of sufficiont porver, with a 20 -stamp battery, barrels provissions, tools, etc, went down: on the Oregon, on the 15th. iust. The mill will be running by February. The entire cost ul'this "plant" will be $\$ 20,000$. The mine will soon te in condition for raising a large amount of ore. The ore is argeutiferras, carrying a large value in gold and is very docile in reduction. The Mexican patio process is now in operation at the mine, with a result of ahout $\$ 125$ to the ton. The mine is. under the superintendence of Captain Taylor.
Mining Exchange Board at Stnckton.-A Stockbrokers' Board has heen organized at Stockton on a "new principle." ays in Independen:
Instead of the $v, v \pi$ voc, bids of Stock Boards, the offers of stock and bids will be accomplished through an ingenionsly arranged bulletin board, which will always be lying upon the table in the rooms of the Bnard, the contents of which will be published every morniug in this paper, thereby giving the members wishing to sell, the full benefit of this market.
In the Arctic reginns, where the thermometer is below zero, persons can converse at mure than a mile distant. Dr. Jamieson asserts that he heard every word of a sermon at the distance of two miles.

## REESE RIVIRR CORRESSPONDENCE.

Adstin, Oct. 25, 1853.
Editor of the Press. - Since my last, I have been active in my travels over the mines, and I can see nothing to detract or withdraw from previously expressed opinions; on the contrary I am now more fully convinced of the extent and richness of the mines of this country, than ever, All we want is good practical workmen in our mills. This will take time and experience, for our rock is unlike other ore, and it canuot be expected that men can be found who will at once, under those circumstances, bring out all the metal. We ought not to expect too much. I don ot believe in an onslaught which like the whirlwind will sweep down every effort to reach pefection or success. It is the object of millowners, aud their interest, to do the best within the reach of human efforts, and I doubt not, that in a short tine, complaints will be less frequent.
The mills, with one exception, have been running this week and doing good work, though idle the week before. This exception applies to Austin \&-Duff s Mill. I uuderstand Mr. Austin has sold out his interest in the mill, and bought an interest in a foundry in San Francisco. Report says, he has made his "pile."
The work on the mines is being pushed forward as fast as circumstances will admit.

Big Ceek District.
There is an excitement about Big Creek Ditrict, some 15 miles south of Austin. It has a ten-stamp Mill under completion. The ledges are wide. The district contains a stream of water ruining 'a the arerage, 700 inches of water.
Cañon City, at the mouth of Big Creels Canou, is growing rapidy, and I might here inform abseut owners of city lots that they had better look to their interest by taking actual possession, if they would hold them. Parties hare attempted the juouping process in Anstia, but not to their entire satisfaction, so they have gone down to Cañon City, where thes can play that game to $a$ better advantage. That place, it is universally conceeded, is bound to be a place of importance. It is but three miles further from Jacobville, thau this place, consequently about as accessable to the western markets as Anstin. At Jacobsville on the river and on the overland road, leading to this place, there is a mill in full operation, said to be of the first class. It has been but recently completed, and report speaks favorably of it.
North of Clifton, $31 / 2$ miles, is what is call $d$ San Francisco Cañon, where parties have laid out a city, which they call New York. I understand an order has been given for a mill to be erected in the Spring. For convenience this section is called San Francisco Canon District, to distinguish it from Yankee Blade Section. There are many first class mines there, such as the Lady Adams, Potosi, Scalvonia, Magenta and Muggins. The Lady Adams has an incline over 109 feet. The Ledge is but 12 inches wide, and rich in bromides. It stands in good repute. The Sclavonia has a wide ledge, full seven feet and widening rapidly in its descent. I believe it is a good ledge. The Magenta has a tunnel over 35 feet deep, and has a well defined ledge, and I pronounce it of the first class. The Vingan, still nearer Clifton, is classified with some of the best. I found an incline about 45 feet, ledge 14 iaches wide. Pizaro, on the same slope of the mountain is a well defined ledge, presenting the appearance of several reins grouped together; ledge six feet wide; rock hard requiring blasting.
In the hill over beyond the Tankee Blade has been found a ledge called t e Oronoco, where almost on the surface is found what is called water-line rock, from the fact that heretofore it has been found only when they strike water, in the shaft, and it is an indication of first class rock. This is what all are desirous to find in sinking a shaft, and it immediately establishes the reputation of the mine. What may be expected on this ledge, when they reach water level, it is fair to presume will be gratifying. The rock resembles the Ontario, and assays $\$ 1690$ per ton; ledge six feet wide on the top, and perfectly uniform in quality. The town is growing as if by magic, and the streets crowded with teams and men; presenting for a short distance on Main St., more of a crowded mass of humanity and horse-flesh than on Montgomery Street, in
your city. your city.
The use of the ramrod in drilling troops has been dispensed with in England. The reason of this is, the steel raurod with in England. The reason of this is, the steel raurod
eauses the the woar of the rifed barrel by friction.

## Mokrlcane Hill, Calateras Countr, \} Oct. 10т14., 1863. $\}$

$M_{\text {r. }}$ Edrtor.-In my last I spoke of our Placer \& Quartz Mining, and will now say something of copper, as we have some of that also. And let me tell you that the copper region is not confined to Copperopolis and Campo Seco districts, but is to be foand in various portions of our county. There are those who thiuk it is not to be found in paying quantities outside of the above mentioned districts, but they are the veriest Tyros in the knowledge of copper and copper mining.
Some three years agn I predicted the discovery of copper ore east of Bear Mountans and parallel with the Copperopolis lode, also in the San Domingo district. In each of those places, the prediction has been verified.
In the Sapn Domingo district several good claims are now partialls opened, and promise, ere long, to be among the best in the county. I will mention now but the fullowiag. which are in active operation: the Noble, San Jose, Star, German Hill and Clincher Claims.
The Noble Company has lately erected a steam pumping engine, on their claim, and are now in a fair way of working. T'en thousand dollars have been offered, and refused, for an original interest in this clain.
The German Hill Company has also struck some very fine sulphurets and black oxide, at a depth of thirty feet, in their claim.
The Star Company has struck the same quality of ore as the German Hill, but in greater quantity at the same depth. They have several veins varying fr m four inches to two feet in width, with good shipping ore as it comes from the shaft. The Clinker Company is now getting goud looking rock at a depth of seventy feet, and as it is located between the Star and German Hill claims, no doubt is entertained of strikiog the same quality of ore as those claims are now getting.
There are a great number of other claims in this district, (San Domingo,) but those I have mentioned are the priuciple ones a: present, and I proyose speaking of one district at a time.
Copper mining, to be profitable, most be conducted by skillful workmen, and I am sorry to see so much neglect, or iudifference, manifested by mining companies to this all important fact. I have noticed in a letter from some of your correspondents, statements to the effect that large amounts of money are frequently squandered in useless and unproductive labor upon mines, and that in some cases such mines have received mach positive injury from such misapplied work. I could also meation numerous similar cases were it my business to do so. Now why is this the case? Simply because the Directors of Mining Cumpanies are chosen without any thought as to their qualifications for such a position. A body of men qnalified for mining directors, will be sure to have a competent man as superintendent, and competent superintendents give value to mines, from their systematic working of the same.
Ifear this is already too long, and will close by saying that in my next I will speak of the "dressing " and concen trating of ores; but lest I should differ with your correspondent, J. P., will take time to consider.

> An Old Copper Miner.

Gold Minne in Exgland.-According to the General Summary of Mining Statistics in England for 1862, it appears that only one mine in England made any return of gold for the year 1862. At the present time according to a recent report, there are twenty-four workings named as gold mines. From a report before us of the Directors of the Vigra and Clogan Mining Co., it appears that the Company are working for both gold and copper. At their gold workings they have introduced Mr. Moshiemer's Amalgamating Pans. Six of these pans are now employed at these works. According to the Report before us, these pans have recently been subjected to a working test with another operation, known as Britten's Machines," in which the Mosheimer Pan entirely outstripped its rival.
The Pioneer.-The oldest quartz claim and mill in Nerada Territory is the Pioneer, located in Devil's Gate district. It was worked in 1857, first with rockers, and is still worked, paying $\$ 40$ per ton of rock, and gradually grawing richer in silver. So saje the Enterprise.

## IMPROVED MATERIAL FOR MACHINE BEARINGS.

Experiments have recently been made upon the London and Northwestera, the London, Chatham and Dover, and other railways. with an inplorod material for axle bearings. The alloy used con-ists of iron, copper, tin, and zine, combined with a small quantity of sulphur, and sometimes also of arsenic. Convenient proportions 'are-iron, 2; parts ; copper, 28 parts; tin, 40 parts; ziac, 130 parts; sulphur, $11 / 2$ parts; and arsenic, 1 part. If the arsenic be omitted, the quantity of sulphur should be increased. The proportions may be considerably rartied. In carying out the inveution, it is proposed to take from thirty-two to forty parts of eo per; then from two to seven parts of iron; then from fifteen to twenty parts of tin; then from one to two parts of sulphur; and from nehalf to one part of arsenic, and mix or combine them together in a crucible, or anv other suitable vessel, by first fusing or melting the copper; then add the iron thereto, well mixing them together; then add the sulphur, or the sulphur and arsenic, as the case may be, and again well mix them, afterwards add the tin, stirring the whole well together, and cast into ingots. The inveator does not intend, in all cases, to employ-ulphur in the manufacture; for example, in some cases it may be used as a flux to render the amalganation of the metals or allogs more perfect; in other cases it may be used to render the alloy hard, the quantity of sulphur being raried in the portions above stated, according to circumstances. He also employs the arsenic, either seperately or in conjunction with the sulphur, for the same purpose, as above stated, for the use of sulphur rarying the proportions. He uses these materials to form the first alloy, or hardeving metal, bit the above named quantities may be variedi, to give this alloy the necessiry degree of hardness, according to the purpose for which the improve I materiul or alluy is to be apptied. In the second part of his process he takes from eight to sixteen parts of this alloy, or har lening metal, and melts it in a crucible, or other suitable vessel, and when melted, adds thereto frona seventy-six to one hundred and two parts of the best spelter or zinc: when that is melted and mixed with the alloy or hardening metal, he adds from twelve to eighteen parts of tin; the whole is then well mixed or combined toge her, in order to make the improved materiul or alloy complete; then casts it in the usual manner into the various forms as required. It is proposed to use the alloy as a snbstitute for gun-metal bearings, and as it can be sold at es4 per ton, Mr. Wh. Levett, the present holder of the patent, anticipates that it will be extensively adopted. Froma a trial on the London and Northwestern Railway, extending over seven months, during which time a pair of bearings were worked without renewal, it was found that the improved alloy (surfices equal) lost weight at the rate of $83 / 4$ ozs. per month, whilst the gun-metal beariugs, in the same carraige, lost 20 ozs. per month, and the amount of lubricati in required with the neir alloy was 20 per cent. less than with gub-metal. On the London, Chatham and Dover line, the results of two separate trials, also extending over some time, were even more favorable. Mr. Levett's alloy lost weight at the rate of $73 / 4$ and 61/4 ozs. per month respectively, whili.t the loss with gun-
metal in the same carriages was $161 / 4$ and 16 ozs. respecmetal in the same carriages was $161 / 4$ and 16 ozs. respec-
tively. Fxperiments are likewise being made upon other railways, the results of whicls we shall publish as soon as practicable.-London Mining Journal.

Tre Sheba-The following item, from the Humbolat Kegister, will be interesting in connection with the recent movements in the value of this stock:
"The workmen in the 'Sheba' struck richer mineral, T'uesday night, Oct. 12 tho, than was ever before found in it The ledge varies from four to six feet wide, and is beautifully defined and cased. It is supposed by practical men who had an opportunity of judging, that the men took out ore, Tuesday night, to the value of $\$ 20,000$. This confirms the statement we made last week-that practical men consider "sheba "better wortin $\$ 1,000$ a foot now than it was ever before worth $\$ 500$. Sharpers will be after it, and at the same tima undertake to keep it down. When they have once more got, it in their owns hands, look out for higl figures for 'Sbelia.' Their recent depression of it, and the reasons they quietly circulated for its going down, did much to injure the whole series of silver mines in this county.

## sUgGestions about foreign patents.

American inventors should bear in mind that, as a general ule, any invention which is valuable to the patentee io this country, is worth equally as much in England and some other foreign countries. Four patents-American English,French and Belgian-will secure an inventor exclusive monoply to his discovery among one hundred millions of the most intelligent people io the world.
Models are not required in any European country, bat the most care and experience is necessary in the prepuration of the specifications and drawingse
When parties intend to take ont foreign patents, engravings should not be published until the foreiga applications bave been made.

## MINING AND SCIENTIFIC PRESS.

|  | Iryer of: Co--The above firm, w |
| :---: | :---: |
|  | vertise with us to dag, are a branch huuse of |
|  | the same name at liuatun, Mass., whu ure the i |
|  | argest impurters, in their line, in the Conited |
|  | States. Ilaving located a branch houss in |
|  | San Franciscu, thry ure dutermined not to |
|  | be undersold by any lmuse on this cors |
|  | Call at $\ddagger 06$ battery street. |

G. E. HOORE ,

Assayer and Analytioal Chemist, No. 61/ Sacramerntes stect,


ASSAYS!
Promptness and Accuracy Secured
By the U'se of the: Most Improved Methons of
A N A L Y SIS
Advantageous Terms for Prospector's Clubs and Mining C'umpanies.

## J. H. CHURCHILL, MI. A.,

Room 24 finvornment isteck, corner of Sunsome nini

RIEHN, HEMME \& 00 ,
ASSAYEIRS.
Offioe, Montgomery street, cors, of Oalifornia
Assays Made of ores, Minerals and Metals.
refkrred witit rermiselos to




## AGENTS WANTED.





EXCELSIOR IRON WORKS; 712 sinsome street
Betweew Jacksou and I'actic, San Fraucelsco,
GALLAGHER \& KENNEY, Hanufactusers of all kinds of
Architectural and Ornamental Iron Worls,
cony, Arou min Cumelory R.ulluge, fatees, sitairs,

Rensmatilo Primes.

## New Style of Ladies' Buckle!

W, BOHII,
Inventor and Patentee.
$T$ RE SUBECRIBER HAVIVG OBTAINED LETTERS PAT. construction of Ladicy Ruckles, is now reanty to ture posscose se several very in portuuit improvecients over any other in use.
PThe invento
The invention having been earefuly examined at the
Patent offer, hans been auliucked to be al usfoful maprove. Patent Ofice, has been adijudged to be a asoful improve-
ment, and lelters Patrut have veca granted for 17 years. ment, and allothers batrut hav

Usefulness, Strongth and Appearance. this Bucklo at the Jewolry Estallisishment of

621 Washington Streat Bair LEVY,
307 Montgomery Strenet Bis Fenksi,
607 Montgomers Streetet, Sin Francisco
${ }_{11} 18$ I Surreet, Surrumento
Every Buckle sold, stamped "W. Bullm:" will
guaranteed as to its Stitength and Durability.
Jy 27
W.
BOHM, Patentee

## THE:

BRYAN BATTERY

## ALONE STANDING TIE TEST.

The with the Impromemente which Experience lise Nine.intint in now remarded, ly common conseat, us the

MFITHOD OF CRUSHING ORE.



## EXCLUSIVELY ADOPTED

Wis artiy of the mant prominent Mining Companos in the methy in thi nume sucere if ull tests-llint of combtapt

Fffective, Substantial and Reliable.
They arin naw ertonsively used throughont the


Thwere Sillsare constructed almoat entirely in Jron
 lied. They aro ulituted to
BOTH WET AND DRY CRUSHING,
and nre warranted to reduce, with the same weight of
St mump. 25 ner cent, more rork than noy, othro mill iin
 at a cultequit tume- ihus preserving the symetry and
anfiturnity of the Mill




Thav a re perfectly fited and set up at our Works, beor. slinpuine cach pirece being marked nud numbered,
Bo that they enu ho put up aud cot at work in tenl hours

 packed over anys monntaiu road
Te aunes the mames of , few weli known Companies five stanns cach-to whom refereuce is mado

Ophir Mining Co., Washoe Valley,
Ein Mareial Co., Mexico,
John D. Winters \& Co. Esmeralda
Crown Point Co., Gold Hill. Putosi Mining Co., Vi, giuia City, Tajo Mining Co. Mexico, Sheba Mining Co.. Inumboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico. American \& Mexican Co., Mexico.
San Carlos Mining Co... Owen's River, Unien Quartz Co., Aurora, Triunfo Mining Co., Mexico, Napa Quastz Co., Aurora, Petaluma Quartz Co., Gold Hill, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Herve, Howe \& Co., Rich Gulch F Hers. Howe \& Co., Rich Gule
F. A. Benjamin \& Co.. Mexico. O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smith \& Clouser, S. F Reduction Works. Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO.,
At the Pacific Iron Works. SAN FRANOISCO.
os 135 to 136 Flrst street, and 126 to 144

MKZNING \& SCIENTIFIC PRESS.

 CONTINEST.
THIRD EEAR! JHITHE YI-NEW SERIE:



Wrill And it an exeellont meinum for the purpage an
 with dinpatch.

The Mechrnic and Manufacturer !


mals from all quirtert, froml which we whatll coutinu
to extrace whatever may be of busullt or interest our readers.

The Mining Interest!
Will find it of gratr walue, as it will contaln all the
 murpuese, and of every thing genorally that may bo of ser

To Cluemists, Arcliitects and Millurights.
Thits journal will be invaluable. All new diseorerises in Che mistry will be given, and a large nmount or infor
mation of great service to Architecte and Millwright
 ters wi'l nat be negleated, eugravings will he given e
ngricult tral implements, inn" the farming interost gen crally will be amply discussed.

## Termas.

To mall subseribers:-Four Dollars per unnumb Club Rates.
FIve Conies for Six Mouthes $\$ 8$,
Tuu Coples for Twrlve Months. $\$ 30$.
Nimanes cim be seut in at difrerent times nod fron gratis to any part of the conntry.

EWER \& SMITH, Publishers,
Rnom 57, Gowriment Hurse,,
Sansome strecta, Sun Francizco.

## I. C. E. KLEPZIG \& CO.,

## GUN MAKERS,

DEALERS IN GUN MATERIALS, g33 Washington street, San Francisco [One Dour above Exearney streit.]
Repairing done in a workmanlike mauner at the shor est mintice? aud also Silver Plating, by E. Eklaud. je21
Gilduge,

> LEANDER RANSOM, Civil Fingineer ANu

## SURVEXOR,

Having been connected with the pulblic works of the State of Dhio for 20 years, and the public surveys of the State of California for 7 years. ALSO
State locating agent.
600,000 AORES OF STATE SCHOOL LANDS
At the low price or $\$ 1,85$ per Acre.
Terms-Twenty por cent in eash and the bnlanc on a credit of severil yeurs.

## D. NORCROSS,

Military Gcods of all Descriptions. Navy Trimmings and Embroideries. REGALIA FOR AIL ORDERS.

## OPPOSITION

Steamship Line!
 asugua lhoule until further uotice. GREAT REDECTIUN IN RATES!!! The Fust aut Fuvorite mouble Engine steam: hip, MOEFES 'TAYTOR, ј. H. B.aтhan...............'омmandeg

Will be dispatedh for PANAMA.
From Mission street Wharf. FRIDAY, - - - NOVEMBER 13,1803 Counceting it Anphwnll, by the lamama liaitroad, with 12.LINORS...........2500 Tong. The Moser Tivinr, siuce her I at trip han undergene
 puit thomehom-makher her nccometnene equal For further iufoumathou or Pasenge, apply to No. $40 \%$ Washington Street, San Frantisen, Agent,

## BOOK KEEPING, Penmanship

OOMMEROIAL OALOULATIONS, Taught by J. S. LUTY
PRACTICAL ACCOUNTANT,
305 Montgomery Street, Corner of Pine.
TO QUARTZ MINERS.

 Silver athl Gold. It woik= 1000 pmuds at a time, and
will amalkanate ner three tums a day. By the motion of the rovolving multer, the pulp is drawn through it centrs nind passes under it, between the grinding sur-
faces, to the cireumberence : from whence it pasees again faces, the thutler in the centre, though the holes aud before. Thas a connture circulation of the pulp is kept up, hringing the fraticles of ofe agails atd ngait unter the
muller, und t'ducing the whote muss to at impatpable
powder. but at thr cirmumference and centro of th pan where the metal must pass through it the the pmalaronates. purchasing machines madeat the Miuers' Foundry ealled on my pateut, amb a suit is now pendmg Io the U.E.Cir cuit Court aganast the partiea infrigimge. By Amblet mators can be sech ruming al Domalum's Foundry, where
all dun judge of their operation and the very superior style in which they are beiug manufartured.
sep21 THOMAS VARNEY.

## PATRONIZE home manviacturies!!!

James Longshore, Trunk and Valise Manufacturer,
 Valises, and a due assor thent of LaDIES' TRUNKS con-

## APARTIIENTS.

FURNISHED AFARTMETNS, WITH, OR WTHHOUT

$$
\begin{aligned}
& \text { Washimston stret. Per-ous desirous of a respectab } \\
& \text { home whll do well to apply. }
\end{aligned}
$$

## FOR SALE.

Patent pressed russia iron maning pans,
Russia Iron Quariz Screena for Mulls;
l'unns, both livame and Lift :
Wead lipe ; Kulber Hose ;
Wrought Cocks ; Couplingr : Play Pipes;
Coakiug Stoves and Heading Stoves ;
Tin Flite : Shert Iron ; Slieet Coppor
Fruit Caus ef Varinuskinds ; Sizes;
Lard and Butter Cons of all size ;
Lard and Butcer Chus of an' Sizes;
Iron Whe ; Brass Wire; Copprr Wire
Copper Rivets and Burs; Iroa Rivets ; Eto.
We are also manufacturers of the
UN FHUALLED
NIONITOR COOKING STOVE
Or $\operatorname{RANGE}$,
For Hotels.

THE MINERS' LABORATORT.-NO. XV.

## ASSAY OF SILVER ORES.

Estimat on of Sileer contained in Lead Ores. Many varieties of lead ore contain silver; consequently we will bare to describe how to assay an ore of lead first. and then describe the method for obtaining the silver, 'I he common ore of lead is Galena; 200 grs of the pulverized ore is nixed with 200 grains of carbonate of soda, the mixture placed in an eurthen crucible, smeared with black lead; into the mixture is inserted two or three ten-penny nails with their heads downwards; upon this is then pla ed ahout 300 graius of salt, and lastly about 200 grains of borax. The crucible and its contents is placed in a small wind lurnace-lieating very gently, until the whole is melted; then gradually increase the heat and keep at a high heat for about five minutes; remove the crucible from the fire and allow it to cool. Break the crucible, and at the bottom you will obtain a button of lead containing all or nearly all of the silver, together with what gold the ore may cuntain. 'The weight of this button, divided by two, will give the percentage of lead. The silver is seperated by the procese of cunsllation; an operation founded on the fact that wheu an alluy of lead and silver is exposed to a current of air, when in a state of fusion, the silver neither gives off perceptable vapors nur becomes sensibly oxydized, whilst the lead rapidly absorbs oxygen and becomes converted into a fasible oxide.

In order therefore to seperate the silver that may be present in buttons obtained by assay, as above, it is only necessary to expose them on some suitable porous medium, to such a temperature as will rapidly oxydize ty e lead. The litharge produced is absorbed by the prorous body on which the assay is supported, and nothing but a small button of silver ultimately remains. These supports or cupels are made of bomeash, slightly moistened with a little watur, and consolidated by being pressed into a mould. Cupellation is conducted in a muffle furnace.

As soon as the muffle has become red hot, six or eight cupels that have been drying in the mouth of the opening are introduced by means of a proper tongs and the bottom of the muffle is covered with a thin layer of bune-ash, in urder to pervent its being attacked in case of any portion of litharge coming in contact with it during the progress of the subsequent operations. The open end of the muflle is nuw closed by means of a proper door, and the cupels are thus rapidly heated to the temperature of the muffe itsulf. When this has been affected the door is remored and into each of the cupels is introduced, by the aid of a slender steel tongs a button of the lead to be assayed. The mouth of the mulle is again closed during a few moments to facilitate the fir sion of the alloy, and on its removal each of the cupels will be found to contain a light metallic globule. in which state the assay is said to be uncovereri. The lead is now quickly converted into litharge, which is absorbed by the cupel, as fast as it is produced, whilst at the sume time there arises a white vapor that fils the muffe, and is gTadually carried of by the door and throngh the openings in the sides and end. When nearly the whole of the lead has been removed, the remaining bead of alloy appears to become agitated by a rapid motion, which seems to make it revulve with great rapidity. At this stage the motion will be observed suddenly to cease, and the button after having for an instant emitted a bright flash of light becomes immorable. This is called the brightning of the assay, and a button of silver now remains on the cupel.

If the cupel was now abruptly removed from the muffle, the metallic globule would be lialile to regetate, by which a portion of the metal may be thrown off, and a certain amount of loss be thereby entailed. To provent this, the crupel in which the assay has brightened should be immediately covered by another, kept red bot for the purpose. The two are now gradually withdrawn together, and after havigg sufficiently cooled, the upper cupel is removed, and the globule of silver detached and weighed.

From the fact that silver liecomes sensi' ly rolatile at very elevated temperatures it becomes necessary to make cupella: tions of this metal at the lowest possible heat at which they can be affected. The temperature leest fitted for this operation is obtained when the mufle is at a full red heat, and vapors which arise from the assays curl gradually away, and are finally remored lyy the traught. When the muffle is heated to whiteness, and the vapors rise to the top of the
arch, the heat is too great; and when, on the contrary, the
fmoncs lie over the bottom and the sides of the ovenings in frmus lie over the bottom and the eides of the openings in the muffle hegin tu darken, either a little more fuel must be added or the draught increased.
If an assay has been properly conducted, the button of sil ver oldained is round, hright and smooth on its upper surface, and beneath should be crystallized and of a aead white color; it is easily removed from the cupel and reailily freed from litharge. The globule is now taken out and flattened on a small steel anvil. The tuel may be either coal or coke, broken into small pieces.
When ores of lead, in addition to silver, contain gold, the button remaining on the cupel is an alluy of tho-e metals. This button is heated with pure nitric acid, when the silver will disolve leaving the gold undisolved; that is: provided the alloy contains two parts of silver to one of gold; if not, the acid will not attack the silver; should this be the case, the alloy, after weighing, is mixed with silver and cupelled with a small quantity of lead, and the resulting button is heated with nitric acid, the gold collected and weighed, and its weight deducted from the weight of the origual button of gold and silver.

## THE MONTE DIABLO MINES,

A large amount of work has been done, the past season, in the way of prospecting and developing the mines upon Monte Diablo. In addition to coal, it is now pretty satisfactorily demonstrated that copper, silver and gold exist, and probably in paying guantities, in that region.
Thuring the past week, we have had an interview with Mr. W. P. Green, who has spent the entire Summer among the mines of Mitchel Canon, (llayton District, and who showerl us indications and evidences that appear quite conclusive as to the value of the mineral deposits on this famous mountain. We examined among others, the following certificates:-
working sample from 4,100 pounds of ore sent dowa from the "Rising Sun Claim," giehled at the rate of s. 42 to the ton in silver and gold at Smith d Co's South Park Reduction Works.
The Guod Will Co.-Six bags of ore weighing 300 pounds, and taken from the surface, yielded at the rate of $\$ 20,10$ to the ton- $\$ 4$, in in gold and $\$ 13,40$ in silver.
Quaker City and Little Giant Consulidated-390 pounds workerl. with a yich per ton of $\$ 25$, (i0, silver and gold. The rock was all from the surface; only eight days work has been done ujon this cluim.
The United Claim-Elephant Ledge-206 pounds of surface rock worked with a yield of $\$ 14.60$ to the ton. A suflicent amount of work only, has been done ou this claim to hold it.
Malnchite-Copper-A small lot of ore from this mine, taken to the Antioch Smelling Works, assayed. 11 per cent., for which the Company paid $\$ 22,50$ per ton. The ore frum this mine can be delivered at the smeltiug works at a cost of sit pur ton for trausportation.

These results speak most encouragingly for the mines of that region. In addition to the companies already enumerated, we would also mention favorably the Garabaldi-copper and silver; Open Sesame, (consolidated,) gold and silver; Great Republic, copper. The Piol eer No. 1, is about hip. ping ore to this city, the first lot of 20 tons paving recently arrived.
The Union, gold, silver and copper, have gone dowe about 60 feet, at which point they have struck a promising rein of ore. The Company is composed of Copperonolis men, who bave become pretty rell posted in copper. Some 200 tun nels and shafts have been commenced in this district, which will be prosecnted as fast as assessments can be levied and collected to carry on the work with.
A meeting of miners of this district was recently held, at Which resolutions were passed to suspend until the 18th. of April next. the rule heretofore adopted requir ng two days work in each month for each 200 feet of ground, in order to bold the same.

## A NEW AND NOVEL PUMP.

Mr. M. Disney, the inventor of a new and norel Pump, has one of his machines in operation at the Golden State Foundry, on First Street, in this city, which all who are interested or curious in such matters are invited to call aud ex-
amine. The principle and construction of this pump are
sach as to admit of its use for a Force and Lift Pump, a Rotary Steam Eurine, or a Hydraulic Water Wheel, For the latter purpose its construction appears to be most adnuirably suited. As a steam eng ne, we imagine its chief defect will be found in the difficulty with regard to its being properly "packed." We presume, however, that further study and experiment might be able to overcome that oljection to a sufficient extent to render it of practical value for eren that use. The chief purpose, however, fur which the machine has been designed is a pump. The une now on exhibition is of two inch size. 1t is the intention of the inven. tion to construct them of all sizes, from one capable of throwing 30 gallons per minute, or less, up to 5,000 . It is impossible to give any idea of its mechnoism without diagrams, I'hose who would like to know more fully of it are invited to call and examine it as above, or on Third, near Broad Street, in Oakland, where another one of the same make may also be seen in operation. The proprietor is prepared to receive orders for their construction of any size. We understand that several have alreally been ordered. County and State rights will be sold on reasouable terms.

## ESMERALDA MINING CORRESPONDHNCE.

Considerable activity has prevailed in the stock market for the past two weeks.
The Del Monte. Pond, Crockett, Western Summit, Lexington, on Last Chance Hill, are all being worked with renewed rigor. About 300 men are engaged on the five claims, working day and night shifts.
The Greenback, Utah, aid Cortez, on Silver Hill, are beng worked by a large force.
The Cortez Company have sunk a new shaft about 30 yards southerly from the old Indianola shaft and are taking: ut more silver rock than has ever been taken from the claim.
A new contract has been given on the Greenback Ledge, and the rock iucreases in richness as the work progresses. Messrs. Lulkin, Lake \& Co. have purchased one-half of the entire mine, ( 400 feet) and are having the rock crushed at their mill. The Company are crushing 45 tons per week. The rock yields on an average $\$ 61$ per ton.
The Juniata Tunnel, on Martinez IIill is now in to a depth of 190 feet. The Company are sinking on the Juniata ledge in the tinnel.
The shaft is now down to a depth of about 140 feet. The ledne is over nine feet wide, and the rock iucreasing in richness.
The Company have about 100 tons of rock out at the mouth of the Tunnel which will be crushad during the coming month at Gregory \& Beldeas Mill.
The Durant Company have purchased a fine Mill which is now being built on Bodie Creek, below the Autelope and Del Monte Mill. The Machinery has nearly all arrived and the mill will be completed and ready to run by the latter part of December
The Durant Ledge is situated on Middle Hill, west of the Strawberry Ledge. The rock is very rich, and the Company are again working the claim with a large force. They have several hundred tons of rock taken ont ready for crushing, at their own mill whea completed,
The Clan Alpine Company are still d.ifting on the claim. The rock is increasing in richness, and the ledge widening out. The upper shaft is down to a depth of 70 feet, and the ledge is four feet wide.

## THE MINING SHARE MARKET.

A bout the usual amount of business has been tsansacted the past week, in th . Mining Share Market. A larger number of shares than usual bave been forced upon the market, which, together with the continued persistence of lenders to call in their loans has exerted an important depreciatory influence upon prices.

Ophir Shares have been unusually active at a large decline. Upwards of 1,000 shares have changed hands during the week. In the matter of its suit against the Burning Moscow, the Company not being ready for trial when the case was called, on Tuesday list, it was dismissed. The Compony, however immediately filed papers for a new suit.
Gould \& Curry shares; owing to a large falling off of its
dividind-from \$150 to \&1un per fout-hus suddealy ned from $\$ 4.600$ (1) \$1.3.30. The receiptas of the Cons-- for the past month have been sumewtint greater than is jrevious like forinal, falling very litue, if ungthime.
 prosecution of their new improvements have been unly lanee, ound will continue sus for a month or two tu 3. Thase improvernents will double the working capacity ('omphaty s mill. She Board of Tru toes have adoptvey commuenduble pulicy in simply dividing their surufter payiner all expeoditures as loy occur.
arning Moscow still continuen the chief speculative stock he market, and has fluctuated from semin (130), cluninge 28.3. There hus beeu a slight fialling off in the extout of actiuns in this stuck from the two grevious weeks.
adison shares have been guite active, and are the only we quote at un adrance uver last week. Their impruvb is attributable to a consulidation with the Burniug con-six feet fur one.
ichigan has been largely dealt in at large fluctuations. ming at $\$ 15$ they nd vanced $\omega \$ 110$ ou 30 days, but tiuatly ad at the original figure.
urnside, ather remaining quiet for a lung period, has again - its appearauce-3yw shares having changed hands ng the week at frum $\$ 8$ @ $\$ 12$.
nele siam, after selling at $\$ 26$ on 30 days, fell to $\$ 200$. elation to the late -trike in this mine. the Territurial Envise of the 22 d ult. says: Wo mentioned yesterday that It strike bad been made in the Uncle sam. Further refrom the mine corroborate all we have said, and make ranin that the late developments in that mine are of o and permanemt value. This is a little further south the rich black sulphuret ores of the Comstock range ever get beenf fomed. Of course the fact of ores of such o having been found in the Uncle San creates a great ing anong those who own feet in clains alljuining and Inward of the spot where these ores are known to exist. holler ohares have been but little in demand, and have prod hands at a slight depreciation.
Orth American has been in considerable demand -455 es having changed hauds at reported rates.

## cert sive.

## ura Nevada opened at $\$ 90$, declined to $\$ 74$, but closed

Nage has declared a dividend of $\$ 30$ per foot out of the learuings of the month. It is conlidently asserted that claim can now be considered a permanent dividend paywroperty.
Wlic shares opened at $\$ 5750$, rose to $\$ 64$ thirty days, closed at $\$ 5750$.
ide of the West, dull at $\$ 30$.
dorado, declined to \$5. brth I?
Davidson, reached $\$ 4$, and closed at $\$ 350$ reton, has a good inarket at \$s.
ide West shares have beeu in considerable demand at quotations.
itelupe, is quoted at $\$ 175$, an advance over last quota-
eba, advanced to $\$ 160$ on early sales, and closed at y, setters. (See notice of this mine in another column.) a Soto is dull at $\$ 30$.
e Excelsior lead, 35 miles east of Aurora, is yielding exnt ore. The Company are about to send two tons to this for a working test. The lode is from 9 to 12 feet wide ys have been made at from $\$ 800$ to $\$ 1,600$ per ton. Sev
ther companies are being worked in the same distric encouraging prospects.
ipments of copper ore still continue to come forward the various shipping mines as usual. The ships Invinand Lizzie Moses are now receiving large amounts is ore for Boston and New York. The former carries rincipally from the Union and Copper Hill mines, and itter from the Napoleon and Newton.

- O Union is now shipping abont 550 tons per month, of
veraging 20 per cent.
e Keystone is not forwarding any ore at present. The minery for concentrating is still in course of completion. He Napoleon has produced for the month of Octaber 360 of ore, varyluz from 11 to 20 per cent in quality.



## THE WIDE WEST MINE．

Fxtract from a private Jetter dated Esmeralda，Octo ber 23， 1863.
Dear Friesp：I take pleasure is giving you some
 the Superintendent，I Lave been permited to go through the works，ad i have carefuily cxamined the condition of the mine，which I find as faverable as could be wish－ ed．The recont yrigress of the work refiects the highest credit on the intelligent aramgement of the Trustees and the gooll and efficient directiou of the Superiutendnnt and Engiveer．A tunnel bas been opebord from the mine to the mill，for the trabsportation of the ore．I look up－ on this as one of the best mines yet opened in the Terri－ tory．The new double ledge is not epened yet，but soon will be，as erery previous preparation is how about com－ pleted．I thuls the sbareholders will soon bear of im－ portant developmente and splendid results，which wil ${ }^{1}$ greatly enhance the price of the strck．I believe the time in near when a thousund dollare per foot will be eonsidered cleap for it．In the mesntime capitulists Will nndoubtedly endea vor to further＇－bear＂he stock； they will tell you there is nc，water to work the mine and，perbaps，that the mine bas given out，but my ad－ vice is tor $\bar{y}$ nu to hold ou to your stock．Believe me When I tell you that I lhink it will be worth $\$ 1,000$ per thare within four months．$K$ ep it，pay your asses a－ ments，and wait with hatience for the rniby season． I am dolng，so far，very well myself．I get many or－ ders；have plenty to do，and raake more mones thain I did in San Francisco．I would be glad to see you come over in the spring and spend a few days with me－I could post you ubout many things whieh would be use－ ful to you．It is surprising to see the miners getting Elong so well．My bent regarda ta my frienda，especially to George．Tell him I have seec Carollac Mejer．She ta earning \＄50 per month．
I wIll write you often，and beg you to let mo hear from you as soon as possibie．

Youra，
Mming Agever．－By reference to our advertislng col－ umns it will be keen，that we have made arrangenente to ob tain special information，through a resident corres－ pondeut，wilh regard to any particulár mine at Reese River．Parties in the city about to invest in＂feet＂ in that neighborhood，and not having time or caring to Incur the expeuse of visiting the locality，will do well to a vail themselves of the opportuaity hereby presented of securing reliabls information，previous to investiment at a moderate cost．
Peranns already holding＂feet＂and desirous to learn through a dixinterested source the actual coudition of the mine in which they may be interested，will do well to embrace the opportunity bere presented of securiag the desired information．
We shall establish agencies similar to the nbore in all the prineipal miving districts，at an early day．

## Owens River Canal Company．

 FOR SALE，F OR ACcount of the covpayy， 7 ．000 SHARRS OF
 price，unw offered in this market．
office of tio Cumpany No． $3: 8$ Montgomery street．
New Patent Agency． We rave connected with The The Patent Agency Business，
 tou，which，together with our own experience of several years，rindcrs the
Mining and
Sind

 No． 57 ，Governmeut House，corner of Washs，
Sangome streets，San Frauciseo．anm
EIFER \＆SMITH．

FORETGN PATENTS OBTAINED By application at this ofllce，Room 57 Goverumpot Huwse
EWER \＆$S M I H$ ，Solicitors．

NOTICE TO INVENTORS． Inventors wishing to ble CCvenas should apply at this
Office，Room No． 57 ，Goverument Housc．Terms mod：r Ofice，Room No． 57 ，Roverumeat Housc．Terms mod：T－
EWFER $\& 5$ SMTH．

PATENT RIGHTS．
Patent Rights Bought and Sold，


TMPORTANT TO INVENTOTS． Inventors who obtain their Patents through his office
can bave ubeir Iaventions illustrated nod described in can have lueir Iaveations illustrated and described iu
the colums of this paper Farse of charge the columns of this paper Fris of charge，they merely
furuishing the engravings．We are also urepared to fur－ nish cugruvings at reasorable rates．Thnse whu do not care togo to tue expense of having．Thgravings prepared
can have therr inventions fully paticed sud can have therr inventions fully onticed and deecribed in
our columns，free nt charge．The free use of our our columns，free nf charge．The free use of our col
umns to aid them in iatroducing their joventions to the umns to ait them in iatroducing their foventions to the
publle will be found $s$ most important advantage to in－ ventors．
EWER \＆S SiITH．

GENERAL NOTICES

## DR．H．AUSTIN，

 DENT1ST，No． 634 Washington street， Between Montgomery and Kearn $\begin{gathered}\text { Balhs．）}\end{gathered}$
 Which is far suplerior to auy other ever used．It is tisibt cleauly aud durable，and of a na turat color．The chenp－ permancut sets，All operations thuroughly periormed，
and at reusenable prices．

## D E S K S

Office F＇urniture， UF ALL KINDS．．．．．．FOR SALE BY

JOHNWIGMORE，
No． 423 California St．，San Firancisco． office jobbing，of all Einds，attended to．

## SQUARZA＇S PUNCH．

FIRST PREMIUM at the sacramento agriceltural state fair

## ALSO ；FIRST PREMUUM

At the San Franctico Bay nistrict Agricultural Fair， 1862 bancractort，wholesale a ad Tretar， No． 44 Leidsdorif street， Opposite the Wbat Cheer House，San Francisco．

## FREDERICK MANSELE，

 MECHANRCAL \＆ARCMTEECTURALDRA UGHTSMAN
No． 422 California street，Corner of Leidsdorff

El Paso District，Los Angeles County，
MINING AGENCY
C．W．TAPPAN，GENERAL AGENT，
＂Head Quarters，＂．Mesquit Springs，
Will a atend tn any business connected with these mines
for a rensunature coulideratius．





R．W．THYERS，\＆CO．，
Chases＇New Mill，Fremont St．，near Market，
JOB TURNING \＆SCROL工 SAWING．

## BRACKETS，

RED WOOD BALUSTERS， NEWEL AND CEDAR BALUSTERS for Stairs．
Manufacturers of every description of Oval，
Circular and Square PICTURE \＆LOOKING GLASS ERAMES For the Trade at New York Prices．
All lainds of Desings for Euilding．
R．W．MyERS．E．¢．somes

## IIINIVG LAWS AND FORMS



I．C．KIBBE， IINING SECRETARY，
Commissioner for Nevada Territory， 542 Sacramento at．，cor．Montgomery （armory hall．）

GENERAL NOTICES．
HAYNES \＆LAWTON，
nCPORTERS AND DEALERS IN
CROCKERY， GLASS WARE，
FRENCH CHINA，
Coal Oil Lamps，Table Cutlery
CLOCKS，
Silver Plated and Britania Ware， ETc．，
NO． 516 SANSOME STREET
［CORNER OF MERCHANT，］
San Franclico．

## WHEELER＇S Amalgamating and Separating Pans．

It is anknowletged by all who have examived the prin－
ciples and wituessed the nwratiou of these Pabs，thint ciples and wittessed the nurratiou of hese Pans，that
they are decidedly superiur for triturating and amalga－ matng purpuses to uny other in use．
mater
The minst important principle connected with the ope－
ratiou of these 1 lans is the separation of the riturnting ration of these Pask is the spparatico of the triturating
process frum th．tof exnacting tive amilgam 1 rom the process frum th．$t$ of extracting the amalgam trom the
sund．The chict cuuse of tuss of the precons metals ari－ the from the passing off of the same in combination with

 working these maclines there is no appreciable loss
حuicksiver，aud heuce none of the precious metals．
Where these pans bave been introluced and oporated

 of unctals over its compchithr，as well as a，
pyrcentage in the amouut of work performed．
＊＊＊These paus mav be seen in daily operation，at the Hiner＇s Foumiry，on First street in this city，where ail
nturested are uivitud to call aud exannine for bemselves． 7016－tf ZENAS WHEELFR．

## Wm，P，TAAFEE，

importer and jobber of
Staple and Fancy Dry Goods， CARPETS，DUCK，ETC．，
Cor．Front and sucramento strects，
San Francisco．

## $\mathrm{O}^{\mathrm{F}}$

## REMOVAL．

FPICE OF THE PACGFIC METRAL
 uolw cuatled to reduce from 10 to 15 tous of Sllver or
Gold ronk prr juy．
Gold aud，sulver ore，aud Sulphuret Assayers＇，or sil

 509 Sncrumento street，abar Sansorno．

NATHANIEL GRAY， General Furnishing Undertaker， 641 sacramento st．，Cor．or Webb，

| D．S．butcminon |
| :---: |

METAL F \＆HUTOHINSON＇S

## PHOTOGRAFHIC GALLERY，

## 650 Washington st．Three doors below Kearny．

Having refitted the above roums the Firm are now nrepared 10 rurnish the public with a superior style of
Picture，at a lower price than ever before offered in the city．CARD PeCTORES． As we have every facility for producing those beauti－
ful pictures，in all their diच̃erent varieties，we have re－ ful pictures，in a
duced the prico $t$

## \＄3．Per Dozen！

Large sized Photographs 33 －Extra copies $\$ 1$ each．
AMBROTYPES in all Styles and prices． OLDP PCTCRES copied सich care nud accuracy，in any
style resircd．Partienar attontion paid to pictures of style desired．Particular attontion paid to pictures of
Chitrenen．
pites Pictures pained in oin or Water Colors，and retoughe
ang．
in Iudia fur by a competent artest．

International Hotel，
ackson Strret，－．－．．－－San Francise
［A few doors alove 3tontgomery．］
IRE－PROUF BRICK BUILDING． Most convenient to the
camer＇s Landing，Busintss sts \＆Phaces of Amusemel

OPEN ALL NIGHT
腰 City Railroad Cars Pass the Door：
REDUCTION IN PRICES．
Fine Bathing Rooms attached to the Barleer Shop
Warm aud Cold slower Buths Free to Gidests．
Thoroughiy Reno rated and NEWIIY FU niehed this spring．Every Roon opens to the Lig
Air．Fanch ronn is furniblect with a first quali Patents spring Bed anil Hail mattrecses．Tho Internatin
at offers to gueats the greatest number nud

Best Furnisbed Famitiy Roons；
 most comfurtiable，best rexillated，ath in all resplecte perior to any like establishmint in thr etate，and si
nim to metil a continuance of the pepular fal or it enjoy d heretofore．It will be condueled on Tempertul
Priaciples，

F．E．WEYGANT，Proprietor．

## Tremont Elouse，

418 and 420 ．．．．Jackson strcot
$T$ GIS FINE，FTRT PROOF BLILDIN（
 and ubout the same distance from the priucipal plae Amuserment

The City Railroad Cars pass the Door
The Houso is conducted on Temperance Princip
which secures to our guests quet． The prices for board and Rnoms are rery modern
by the day，meal or woek．Wr sulicti A call frow F．E．WEYGAST，Propriete

For the ncenmmodntion of my many gunsta $I$ have sell und rofurmshed the 1stermathanar．Hothe．，nind carly on the lwithouses in connection，so that ign wishing to put up ut exther houan，may take the Tren
or literDatinnal Iotel f nach and be tuken to either H with their buggage，Free．

F．E．WEYGANT
THE RAILROA H O U s E．
Nos． 46 and 48 Commercial and Clay SAN FRAN゙CISCO．
Stepaen Smith．．．．．．．．．．．．．．．．．Proprie
The above House is a Fire－proor boilding，with Gr Frout，and kept on the Eurupenn Plan，with hoirc
Indging by nay or Teek to suit the convenieuce o

The Rooms are handsomely furnisk pplich with Pateat Spricg Beds，and Hair Nutira Gording very
smule pernolis．
The Thable is supplied w
prices to furt
The Rail Road Fouse Conch is always in attend Haners he House Free of Charge．
The IIonse is opeo all uight．
P．M．S．C O．
 ond with the steamers of the thantio und $y^{\prime}$ FOR PANAMA．
The following steamshins wall be dispatehed Nox．3a，
Nov．134h
Nov．23x

Will leave Folsom street Wharf，with Passengel Treasure，for amama
AT 9 O＇CLOCK，A．M，PUNCTUALLY，
And connect，via Panama Rairoad，at Aspinwall， teamships for New Yark．
For Freight or passage，apply to

A．B．FrãBES，Agel

## MINING AND SCIENTIFIC PRESS



## REYNOLDS

 atout Cut-off and Governors: FUR STEAM ENGINES.187 of these Invainablo Machines, ARE NOW IN USE: Saving 20 to 65 per cent of the Fuel.

## Stean's Improved Governor

Clark'sSteam and Fire Regulator,

## Ingersoll's Patent Drill Press,

Felt for Steam Boilers, Pipes, Etc..

## Steam Engines, Boilers, Pipes,

## Anti Incrustation Powder,

L. A. Lhwuh. Wiv, Virgumn City

1. T. S'liLLN Agent.

MOYNIHAN \& AITKEN
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, San Franciseo.
N. B All kiads of Bolior and Sheet Irou Work exc

## P U M P S !

HARRISON'S
California Lift and Force Pump, Witholt
Suitable for Mines, Fire" Eurneq, Wreckiug or IrrigatThis is th. Ci, chicel, Ligh lest and must Durable

ALI SIZES;
pable of throwing from oNE HCNDRED to FIVI
fousinid Galluns per Minule-For sule by
C. H. HARRISON, Phœyix Oil Works, 517 Frobt Street, Sun Francisco,

## 60 lbs MIARINE and

fire-Proot Paint,
 Warks min this eity, tor Hulle und D"cks of Yessels Kke and six wher Minerals. Then utiel on tue Deckr Ret equill to copper, no equal to a cont or will ever effect ih, and
le and
leaper toan auy other puint. DIRECTIONS :
For Decks of Ships, use two parts 3ineral Paint, oue
ot Wlite Lead, mixwith I, inscer (oil.
 hir salo uy allShip Cbandlers and Tradesmen, in boxe
50 Ifs. exch, or ly the P'ecific Metallurgical Works.

## 25 POUNDS FIRE-PROOF PAINT.

When used on Ronfs, Buildings, or Fences, it is equa
covering them with a cont of Stone, beivg porleut - Proor, aud costing less than any paint.

## DIRECTIONS

HoUse :-Mix three parts Mineral Pastat with one part hinted, mix less paint, mure lead.
all: mix with Lissed oil pal in , one part white one cust when properly applied will last threo years. 3. T. Forque, Superintendent. C. BRADsHAW, Agt.,

TORIS, North Beach; Office, 509 Sac.
ramento at., San Franclicco.
PALMER, HANSCOM \& CO.,
GOLDEN STATE IRON WORKS, No. 19, Fifat Strect, Bun fruncluco,
Furnish Custings and Machinery of all kiuds

Grauink White Irox Shofs and lies PMLSARR, HANSL UAB \& 00
To Quartz Miners. Kmox's Improved
AMALGAMATINGPAN W:H
PALMEIR'S PATENT STEAN CHEST


$\qquad$
The pulsic are informand that Inetera Patent have heren


Jors P. Gallagler......................askis h. Wezn.
GALLAGHER \& WEED,
BRASS \& BELL FOUNDERY AND

## LOCK EACTORY.

Foundry, uil hiludy of 126 Firs site Minna, next dour to Pacie
Brass and Composition Castings and Finishing, done with neatness and dispatoh.
CHUPCH AND STEAMBUAT BELLS, OF ALL NIZE Wo bust mamoer. Enginco G Godss made and humg paltrone on hatid nad made an orter.

All Jobs promptly attended to.--Prices moderate.
Rernoved frum Oregon street, wetween Frontand Davis.
Miners' Foundry
MACHINE WORKS
First St., between Howard \& Folsom,

F Very nescripgiov of iron and brass machi-
 Stcam Enginer and Bolers, Fhur, Suw anil Quart Steam Engines and Bolers, Fhar, suw ani Quariz
mill macliniery, Miniug Iomps, Analgamators, Retorts,
Eic.
Eic. Particulisr rttention will be giren to the manurneture
 ors and Water Whecls-sone in uplerutiou aud ou exli ** Parties desiring to test their ores practically,
mill quantities will be ufforded ample faclities, free cost.
 are cordialiy invited to cull before contrucing elsewher San Francisco, February $\begin{gathered}\text { HOWL, } 23,1883 .\end{gathered}$

## San Francisco Machine

## IRON WORKS !

Northenst conner Fremont and Mission Strecta.
A LL KINDS OF MACHINERY MADE TO ORDER team Engmes, High and Inw Pressure; Quari unlls, Savemills, Mining Pumps, Hoisting machines fo mining purnuses, Tine Presues, Ayricultural implement
etc, ete, and Custings of all descriptions made to order Steam Eugines exchanged and lor sale by
DEVOE, DLNSNORE \& CO REPAIRLVG promptly attended to.
Sen Francisco, July, 1853.
$\mathbf{B}^{\text {ABBET }}$ and Bifl Pumpe, Church nut? twamlual Bellw, Tav

VULCAN IRON WORKS CONIPANY

## P. Torquet, Manager, <br> STEAM ENGINE OHDERS <br> BOILER MAKERS,

Iron Founders and General Engineerg, No 137 ※ $13 y$ Firs. Btreet, San Franclisco. Pumpleg, Himetug, Mandg an wartz.crashing Micthery

Irun
isu-is won Pubshed Ecreens. Steamboat Blachanty : siw, fhotr und Sugar Mills.
 mprovematat.

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders Cor. Flust of Market atwo, San Franciseo


## D. MORRIS,

 MACHINE SHOP, 227 Market, corner of Beule Street. Manufucturer ofWARRANTED FIRE-PROOF SAFES Milut Wrar, "it ais kinds mate to order. All kinds of
jel 13

## LEWIS COFFEY AND RISDON,

 Steam builer and sheet hron
## The only exclusively Luiler 3laking Eatablishment on

 the Pacilic Coant uwaed and conducted by Fractiral Boiler Sakurs. All orders for Niew Wirk, the repairiagOld Stand, corner Bush and Market Streets
Opposite Oriental Hotel, San Fraucisco, Cal.
LEWIS COFFLY
[HEODOR KALLENBERG
Maker of Models FOR INVENTORS.
 Stumpa, Dites and lhe sinking, Eimbossingstamps. Reparitg of Michinery prompty attented to.
No. $\mathbf{4 1 8}$ Maeket strect, San Francisco.

## HIRAM WRIGHT, <br> PICK MAKER,

Has established a Manufactury for the Making of MINER'S PICKS,
NO $1: 11$ BUSH STREET, SAN FRANCTECO, [Between Sansume and Battery] Where can be had a superior l'ick for Miners use As he manufactures all his ficks under bis own personal
surpervisiou, to warrants them as being made of the best maternil and uy the best workmanship. Orders attended to and blled promptly aud with dis-
putch.

## WRIGHT'S PICKS.

JOHN WRIGHT, of Sacramento, has establisned bima. self in Sin Francisce for tho manufacture of ever, description of PICCE of the best materind, at rellucen
prices. Prek Eyse of the best fron furnished in any quan prices. PrCk Lrzs of the best fron furminhed in any quam
tity, at low rates Orders from the country pronply
attended to. N. B. None renuine uules strimped with atteunded to. N. B.-None qenuine uulpsa stimped with
my unme. JOINN WR1GHT, 511 Market atreet, my unme. Oppasite Batery. San Fratecisen.

CALIFORNIA TOOL WORKS!
John Weichhart, All Kinds of Edge Tools, Etc., Plane Irons

Mooldidigf Irons, Stono Cutter's Tools
No. 22 Fremont street, bet
San Francigco, July 14, 1863 .

## FOU, UURHE \& M.MCHNE ごHOPS

Primat Clanse- We will furnish, nin application, the ant lourtion jecrs. The butse of the putertee-date of jatent, when known, and two tollurs for copying should be sent.

Nobtus:-linveltura will plenne ulfuch to all moteb nent to us, their uanus and aildress, in a legible, per. mathent furth, thas will arold confuxiua and prevent orrors.

Dramingr. - We have highty tatebled and emelont
 wir execurd in the brest styte of art, with promplitudo, nud at a moulerate cus?

## WANTED

By a competent persuls, the Sueretaryalip of fiur Manag Clampaney. Bouka to be bepp at the onice of the Hishig nud scleatific Proiss, No 37 Goverumens Huase. uyulre as ubove

SOUTH PARK
Quartz Mill and Reduction Wor ${ }^{\text {kss, }}$
GT ulde rates, ulid Workitg Absnys made of small lut. All kiads of ores crubled at stburt nuthe, Omice in shitel'm Block, opposito J. H. Sisurich femple. jel3 S. F. CLUL'iER, secrutary,

## W. W. HANSCOM,

## Steam and Mechanical Engineer,

Desigus furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc.., itc.,

> State Iron Work!,
${ }^{\text {ang } x}$
First Street, Sinn Franciaco.
Eye, Ear and Throat.
DR. DECASTRO, Ooulist and Aurist,
W Yo ras practised in New




## Self-adjusting Artificial Tympanum,

For the reliet of deafneas, attended by lose or injury of from the ournas he muention of De Custro, M. D., wuthor
of theatuess of "Ileafuess Practucally Illustrated as to its Nature snd
Treatment," otc, Thearmett, self-adjualing Arvificial Tympanum was first introNucen to the notice or the profession at he mecting of the
 the j) aper, and several members of the Saciely bure testimony to the success of the remedy und the iniportance of Mr. Laker Brown (member) boro testimony to the SelfAdjusting Artithcinl ly mpanum, as he hat nbserved the
inmense beutat a young lady tricat of Lis had received inmense beuth a young lady iriend of his had received
tronn it. She was mist, quite deaf, and lut most mise erable state; the eftect of the tympanum was inatantane-
our-quite like a miracle. Five more cealimonials frum Nembers of the Medical College, New York, aud the principai ching of Europe. Eearry wheel. Lirn on harket street
Ho Mr. Editor-Having been afmicted With dealless firr the last two years, orighating trom a
severe cold, and for the last mouth sulfering fom the movt exeruliating pains in my ear, I was ubliged to come
duwn to sua Francisco to ncek relief. After a pleysican's recnmeudatim to wuit on Dr. De Castro, on the corner of Kearny und Marliet streets, and underweulnue operation,
and it is with the utmost pleasure 1 ean say my learing and it is with the utmost pheasure I cans say my bearing it my duty $t=$ make this krowis to the bublic, and to recommend Dr. De Custra's skill as un aurist. Napa Vally.
JOHN REESE, Napa
James Callaghan, withess,
saut Fiancisco, July 30 th, 1863 .
[From the Nesly Alta.]
san Frameisco, June 30th., 1863.
san Frameisco, June 30th., 1863.

Permit me through your winely circulnaled journal, to
say, that my daughter Mury Ellen, has beena aflicted with deafness sincusle was thirtrell moliths old, and that she has been a member of the heat and Ihmblistitute since
it was mrganizad. On taking her to Dr. De Castro, on the it was miganizney and Market sircets, und undergoing under lis direction, two operatious, sho hus harard surunds very distinctly, and is now, I am happy testate in a fair
way to get permanent relife. The rosult, thus far, is a way to get purmanent reliec. The rosult, thus far, Is sat-
islactory ; and I deem this notice due to Dr. De Custra for islactary; and I deem this notice due en De. De Chstra for
his Skill, nad would recommend all partices sinailarly nf-
 und auri-ts in California, but up to the period of visiting
Dr. De Castro, receired no bencfit. Dr. De Castro, receired ho behefit. CH . WRIGET, JOBN P. WRIGE 812 Greas Street.

MINING NOTICES

Mray Flower Gold und Silver Mining Company. At a meeting of the Buard ot Trustees of the
above Cumphay, held Ochiber : $0 . h, 1863$, ant assessment above compaly, henty-live cents per share was levied upon the cip-
of twe
ital stock of suid Compuns, piyable in United States ital stock of said Compruy, p. Yable in Unined States gold con to the secreta, iy at the offce of


Pioneer Coso Gold and Silver Mriaing Compury, Coso District, Tulare County, C.16, -Nuthee is
hereby givea that that iu ascordance witb the laws of
 Board of Trustees of the Proncer Cosn Guld and sily
Mliniag Cumpany, there will will be sold nt public au
thon, it the aule room of Jerome toon, $i t$ the aule-ruom of Jerome Rice \& Co., No 32
Munigmery street Sa Francisco, ot WEDSESDAY, th
 compuny, elithting in the mames of the following pe
sous, as will bre necrssary to pry all atsessmeuts uo due on sund suck, together with all experinses of J. W. Busford, 100 shares, \$25; T. J. Brother, 165




 Nushares, $\$ 1250 ;$ W. L. Luckett, 25 share, assessment
NicGowu, $20, \$ 1875$; S. McKee, 10 shares, $\$ 250 ;$ Lee \$2. Reddiug, 50 sharesi. $\$ 1250 ; \mathrm{H}$. Rache, 10 suares, certulicate No. 86,6 shares, $\$ 1$ 50; T, W. Wedekind, 24
sharea, $\$ 6 ; \mathrm{C}, \mathrm{B}$. Younger, ceruh cates 226, 28 shures, $\$ 7$.
J. S LUTY, Secretary,

## 

## NEW MIINING AGENCY.

$W^{\mathrm{s}}$

## HAYE MADE ARRANGEMENTS WHTH A SPE- cial Currespondent at Austill, Reere River, by

 Which any infurmatiou attaiuable with regard to anyparticular mine in that locality can be obtuined, for the

## Private Benelit of Parties

in this City or elsewhere. Our correspondeut will risit auy miue which may be designated and report unon the
general characteristices and condition or the same generat of work which may bave beell done, etc. A reagonable fee will he required for such ther informatiou apply at this Office

EWER \& SMITH,

## MEAD \& VAN TASSEL, HATTERS, <br> montgomery at., oor, or Commerctial,

 San Francisco.10 OUR FRIEADS AND THE PUBLIC GENERALLY
 Finaer a Co., in this city, we shath, HATEMPORIUM,
solong conducted by that brm.
 man with Menss Fither \& Co., respectinily arolicits a colltinuanee of the patrohage sol long and hiverally bestowed
upon the old House, fieliog entire confilence in our ability to suat is every particul $r$. Mr. THEODORE, VAN TASSELL, for eight yeafs with
Messrs Le GHy \& Co., would be pleased to see his frueads at his new phace of business.
The long practical experie.
The long practical experieice of Messra Mead a Van Tassell in the Trade justifus them in suving that their
work cunnat be excelled either in filisiour clurability Haring perfected arraugemeuts, we shill be in constan receipt, ly every steuner of saft goads of the very finest French and American Manaracture.
Our Stnck now on hand is superb,
Ctll aud exumine, nad judge of the nerits of our claim
to the title of "LEMDERS UF FASHUN:"
Respectflly
Re litle of
MEAD \& VAN TASSELL.

MINING NOTICES.
Wide West Copper Mining Comapany, Or-


| By order of the Board of Yrustees, <br> seplit |
| :--- |

Bald Eagle Gold Mining Company,

 tod Stute: Golu Coin to the Secietary it his oniee, or t By orler of the Trusiect.
T. L. B1BBINS, Secretary, 105 Sontgomery Street.
seplim


Tuth Windsor Tunnel Company, Es meralda di-trict.-Notice is hereby givell hat an ussess
unent of Gfyy chints per share was lecied on the capit stock of the above comp iny on the $i$ sit, ilay of septem-
ber, 1553 , parnble imediately to the Secretary it las By order ot the Trusteus.
By order ot He Trusteus.
T. L. Bitbings, Secretary, 305 Montgomery St san Francisco, Octuber 13, 1863.

## Mining Shares For Sale

## O. A. CRANE,

onice 28 Government Block. 485 thares C. S. Miuing Company, Virginia City, 910 Sh res Gramala Guld and Silver Muning Cumpany
Virginia Hı. Virginia City, 168 Share
108 Shares Evuca Consolidated Copper Mining Com ao Shures Mohave Mining Company, La Paz Distriet
Colorado N. 30 Shares Asp
vil's Gae listrict, $\aleph$, $T$.
75 Shares Waslington Copper Mining Gompany, Indiau
228 Shares Montezuma Gold and Silver Mining Com-
90 Shares Owen's County Cunsolldated Gold and Silver
Mang Cumpany, Iuyo District, Tulare Co.
50 Shares Crowb Poiot Ravine Gold and Silver Mining 50 Sbares Crnwn Poiot Ravine Gold and Silver Minins
Company, Virginia District, N. 10 Shares Triunfo Gold and Silver Mining Company,
San Antonin District, Lower California.

Heyer Bros.,

> Heyer Bxos.a 406 Batery sitre SAN FRANCSCO.

## HEYER \& CO.

maporters of
AERICAN AND EUROPEAN Fancy Goods, Toys \& Musical Instruments; also,
GOAPS, PERFDMERY, HAIR AND TOOTH BRUSHES, Miburt Folsos, Porthounaies, Ladie's Bage, Photorrapl
Abums, Cutlery, Willow and Harian Wiare, Cajldren's Cariasee, te., Our Stuck of Vinlin, Guitar aud other
stringe js very large. Uur Foreigys Goods are selected

Hallet \& Davis' Boston Pianos, Smith \& Bros' Harmoniums, and Tho Fullet \& yaris \& liayussley's Melode Mens,

ment. It glves a full and clear vilrtainin the upper
octare:, prouluciog a quality of tone unequilled in firm-
ness and purity. Our Mrludeons and Harmoniums are ar

OWEN'S RIVER CANAL COIIPANY
Capital Stock
$\$ 1,000,000$.
10,000 Shares ........ $\$ 100$ per Share.

FULL PATD AND UNASSESSABLE
Stnck, a so A-nesiable stork, can be obtimed of A.
DOWNER \& CO., the anthorized Agents of the Company
406 Montgomery stet.
Presid 10 nt.

R.S. WHigham, formerly ois Whighau's mill, Nevada

 Office of Company $3: 88$ Montgomery stret

ARMSTONG \& WILDER,
searchers of records
for unining Claims of Real Estato. RELIABLE ABSTRACTS guaranteed at reasonable prices.

LETTERS OF ENQUIRY promptly answerea.

ALIEXANDEFE STOTH,
MINING SECRETART
512 Sansome Street, San Francisco.

Horse Enos, Silver antl Copper, Monte Diablo.

T. C. Sanborn \& Co, SJOCK BROKERS,
No. 630, Montoonery Street.
$\mathrm{O}^{\text {Pair silver maning stoct, }}$
gotld \& curry mining stock, chollar mining stuck,
oriala teini Mavigaton co
callfornas teinl savigaton cós stock, BOUGHT \& SOLD.

## F. MILIER.

MILLER \& COLEY,
Stock Brokers \& Mining Agents 327 MONTGOMERY STREET,

Estate Sales Rooms, San Franci-co.
ALL Kinds OF STOCIK AND Mining Business attended to with Promptness and Dispateli

## L. F. LELAND,

STOCK BROKER, No. 621 Clny street,
Office Hours, 10 to 11, A. M.; $23 / 210332$, P. M.
Member of the San Trancicico stoock and Exchauge Baard

## AGENCY

MEXICAN MININGSTOCKS

Culfor piar ins are ivvited to call and examino ores from
the ulowe miuses.


## New Bedford Copper Company,


Sbeathina Copper;
Braztrr's Copper;
Copper Bolis;
Yellow Seeathing Metal:
Copper and Composition Nalls;
Which they ofier to tho Trade at the lowest mark
ate, and on the most fio

A. C. MORSE Mrining and Real Estate Agent HA WING BADE ARRANGEMEN;


Fire Hose! Fire Hose!! Fire Hose!
J. P. D. WILKINS,

The celebratw HARXEs MAKER of Stocktou, ma
 square fuch; as certiliell ly the Chiof Engiuect. ALSO FOR SALE,
All kinds of Flaryfrs and Saddlery, at the loweat c


WANTED,
$G^{\text {GLDemartzentablefo }}$ CUTTING JEWELRY
au3t 437 Pine street, San Franciseco.

## THE EUROPEAN ORE REFINING <br> COMPANY

Quartz Mill and Furmaces, Fryant Stwe
Crossing Third, San Francisco.
ORES젹ND MINERALS.
cates europeav methods,

## CAREFUL ANALYSIS,

It their works, to be the most Eflect aal in obtaining cinus Metals they may contajn, intn marketable Ingot Do The South Park, and Folsung and Kearuystreet C pass Bi yant strect.

The Pacific Mineral Compnay M
 Lead, and Sulphurets containing fold Dur account thkno of all valuable metals combing larlfes owning undeveloped miues and desirlug capit to prospect the same will receive assistance, if, upon e:
aminntiou, sulsh leads are deemed suffienily valuab
justily such expentiture.
OFFICE, No. I/ ODD FELLOWS' HASL,
Kuntgomery Street, SLo Francisco
MARTIN \& Co.,
OFFICE---224 Montgomery Street, Up Stairs WILL CONTRACT FOR THE
Purchase of Copper Ores
Assaying 8 per cent and upmards of Conper to the Tor
We will mike ADVANCES upon Ores of COPPER, TI
 Henry Martin, J. F. Grrensan, New Yurk.
San Francisco Post Offe 3 , Bn $\mathrm{I}=269$. je 1.

## NORTH BEAOH QUARTZ MLLL

## REDUOTION WORKS

## Are prepared

Working usepers made of small lote, zand all kidid
Our uew and complete Machinery, will enabie us
ive results fully un to the merits of rock.
WHLLELER \& TUAYER, PToprietors.
San Francisco, Oct. 13, 1863,

## AN IMPROVED PUMP.

The pump which we have here illustrated is the invention of Capit. (1. II. Ilartison, the whl Mare Ishand I'ilot, of this city, and is designed to throw lawe quantities of water, either as a wrecking or miniog purnp, or for purposes of irrigation. Its principal advantares are that it is lifht, compact, very durahle, and not at all liable to choke or get out of order from any canse. It is sell lulricating and hus neither ralves nor packing, and operates either as a suction or force pump. It can be run fust or slow, according to the necessities of the case, and the quantity of water discharged is in proportion to its speed. When operating as a mere suction punsp, it throws a continuous stream, and is not intermittent,


HARRISON'S ECCENTRIC PUMP
with the water. The grain proved no imperliment whaterer to the most perfect Working of the pump, although it would have at once choked up and rendered entirely unservicable any lilt pump.
In conclusion we would eamestly call the attention of miners and others to this new puиp, which, we can but believe. would prove far more effectual and economical than any other in use for either heary or light, work. Persons desirous $0^{\text {" }}$ satisfying themselves with regard to the capacity and effectiveness of this pump, will receive every facility for so doing by calling upon Capt. Harrison, the iuventor, at 517 Front street, in this city. Capt. H. keeps in constant readiness, as above, a large wrecking pump, capable of discharging from a ship's hold at the rate of 5,000 gallons per minute. He has also a like the common lift pump. It is manufactured of all si-1ing capacity of the Harrison Pump, we have here just the portable engine fully capable of driving it, both of which
zes, from a capacity of throwiug 100 to 5,000 gallons per minute.

In the absence of letters upon the above illustrations, it would be çuite impossible fre us to give anything like an intelligible description of this most valuable invention. Parties desirous of acquanting themselves with the peculiarities and principle of working of this panip, can do so by calling at the place of business of the inventor, at the Phoenix Oil Works, 517 Front street in this city.
The engraving upon the left represents the working arrangements of the pump, which, as will be perceived, consists of a smalier cylinder working upon an eccentric shalt within a larger stationary one. The motion of the inner cylinder is a rolling and not a sliding motion, as is the casp with nearly or quite all other pumps in use, It is, in fact, the motion of an eccentric strap; hence the less liability of this than almost any other pump to wear by friction of gravel, when employed for mining and similar purposes. nicely are all the parts of this pump adjusted, even in those of the lowest calibre, that it might be most effectually used for an air peemp! The engraving on the right represents the pump as clused up and ready for work.

It is a matter of no little surprise, even to the careful observer, that when such vast improvensents have been made and come into general acceptance, in alnost every other department of the machinery of mining, the pump alone, that most essential appendage of almost every important mine, should remain, down to the present day, almost identical in its construction and mode of application to that employed in the earliest infancy of the steam engine, even when no contrivance had been applied to that machine other than a leverage or balance weight to produce the return stroke of the piston. It is true that numerous appliances have been derised for inproring pumps, but none which gave promise of a successful application, on a large scale, for raising water from a great depth; hence we still find the uncient Cornish lift pump at work in mines all over the world.
improvement needed in this pa-ticular department of mining machinery. In addition to the qualities enumerated at the
outset of this article, we have also a most economical application of power, and an ease and smootlmess of working which can never be reached by the most carefully constructed lift pump. There is no jar, not the least irregularity of motion. The inevitable "thug" with which every upward stroke of the lift pump is attended, straining and jarring the machinery in a most dannging manuer, is entirely avoiled in this pump. The great economy in the reduction of space necessary for its operation, is also quite an important item in many cases.
This puinp is not without practice, and we are not obliged to speak of it as a mere expermental machine. One may be seen in operation at the Centerville Salt works, in Alameda county, which has been in constant operation for nearly 12 months as a suction pump, throwing 600 gallons per minuie, rumning at a very slow motion. There is another at work in a mine in Mexico, raising a column of water 200 feet. Another was recently employed in pumping coal and grit from a stranded ship in Bellingham Bay, for three months. The same identical punp, without any repairs whatever, was taken to the late Fair at Sacramento, when it worked quite as well as though it had never been used before. Thousands who saw its performance at that city can unite with us in the fullest testimonial as to its capacity rad effectiveness.
A small size 2 -inch pump was recently employed for about two months in a gravel pit, at the North Beacli Woolen Mills, in this city, with scarcely the least perceptible wear. although constantly discharging. sand and gravel, during the entire period, until the work in haud had been completed. Many of the residents of this city will recollect the employment of one of these pumps (a 4-inch one) some six or eight months since in pumping out the wheat-loaded ship Shawmut, which had knocked a hole in her bottom on one mile rock. Tho bags of wheat had bristeif so that the
can be put in rearliness for working and transported to any part of the city or Biny at the shortest notice. He has also smaller pumps for the same pur, oses.

## THE VIRGINIA SALT SPRING ONCE MORIE.

Editor Mining Press:- In your last issue you expressed considerable surprise that no measures had been taken to turn to profitable account the recent Salt Spring discovery, a short distance north of Virginia City, and intimated that it might 1 e possible the proprietors were not aware of the "value of the prize they had found." Being myself the discoverer of the spring alluded to, and still owning a controlling interest in the same, I would take this opportumty to say that the "proprietors" are fully aware that they bave made a valuable discovery, and are anxious to turn the same to "profitable account." Linfortmately, however, we are like most other California prospectors, not blessed with the means to go on and develop the diecovery by the erection of suitable works for evaporati $n$, or to provide the transportation required to deliver our salt at even its nearest market. If some of your numerous readers, or some others of the enterprising capitalists of San Francisco, or elsewhere, are disposed to take hold of the enterprise, they will meet with favoralile prupositions lyy calling at the New England Iotel, on Sansome street. We are perfectly aware that we have made a discovery quite sufficient to make not only onrselves rich, but any two or three others who may be willing to furnish the neressary capital to start the enterprise.
If, as you intimate, a reposit of mineral salt could be dereloped, at a small expense, the enterprise would prove still more valuable, in fact, of almost incalculable value; for even if a process of evaporation should be required, the facilities for transportation are so much more favorable than from any other salt locality, that we could lay down the article at Virginia City at just about half the cost at which it can be furDisher from any other point.
Please excuse the liberty $Y$ have taken in thus addressing you, for publication. Knowing the interest whieh you talke in all matters pritaining to the developments of the mineral comes of the Pacific Coast, I have takep the liberty to name and addre s is herewith onclosed. Yours, truly,

## MININGANDSCIENTIFIOPRESS

## 





 Pohtur 1 ?














 yut forsit: ulu

## 

























































 diret of thest it the
 Thmicuart, furthes thac it containe 4.000 feet. with a bluft


These vikitu- contuit 1 Su( feet iv of sirupes. with maiu

 Fratulloh. uud çute clyet. it the

Thin elu'no contuiut Buntl deet iv 15 sturve, with muis











This chitu corytuitur 1 n.w. fent is one fort shares: muiu












 ztsom i milie northeure. If futd the
colutaz








 int wit ut jwentst vert lurge. I beliete ilis leud uhtuough - mer a wite from the $\hat{x}$ upgleon. is a sepurate lewh. rumuing intinate und nostis of the former, and wid be fourd next ? Whe

## mamentiar

This chise coutuine 2.5 他 feet is 27 shures: Ehaft about 55 fext dewa. Tou wist usderstand we iave bow come
 nace ieutiug the Xuportou aud Coller betiiad ue. If the E- Mies is 2 dusuruf parabel lead. the Luckiur ar will btrike it.
 dianmat! army that. The suck leoke weil, is currvitug cotmidantite tiacte wide copprer yprivee wad yhur sulphureth.
 the progreme of the Lockisrer whih suact iutersert for $\begin{gathered}\text { fuceper }\end{gathered}$
 69ing bill mortheabt. about unotier mile, we come to the LTTE GAE
Thark it this cievien is *uegmeuded on arogunt of mater Which if somewhut rure is the distrien : the chaiun. bewever

 3 muadie. ute it is getumily supposed is 20 ur 30 fen wore whre udied to the shaft. incterd of dristing. a geod reis


 wern the whatul $\because$ ! the thim:


 hearisig b mith perthupe guarter of a mile. io the

 trive an wall te the CGAlier. I whame Mr. B. Keerybs his t lur mo it wumirable ordar and d ne excellent work. This is an *2ubarbind teiu with evert retguisite: but some 30 or 30 feet rugre hate to be auded tes the rhaft leforope it in thoroughly
 lened Erour lie C Colles. leflute it is supp had to dip uate the Napthencs or maiu lude at the Hugle'e clana on Quail Ifil, a milk and a taif bunce. Bortiowert ; but before I speak of it 1 wust wucsuldu ine

It containe: 3, $9(0)$ feet in siugle foot shares, with whalt so feer utry jhie clain ie ulopat one mile or leas frow the
 sapposad to be arouther wein. The rock in of goond charws

 ub inslixatione of therkar. With them it if enturely a guragtiens of 1 byth. a siout hourt aud a stout arm. We yow turn is a surthw eaterly direetion, and cotne to the

## Hiculet clanc.

Thie corrtaine 1.500 foel is 12 chaves. It is. juerlayps, the












The former contuine 2.700 feet in 15 shares, witb shaft 60


 ated tharamer atrangy re rablage the Jexab. The Luck-


 ouly +apluiv uxd rovoucile. 'outivuing ouwardo is about a worthearter! ? iadt tu thin dersectiot-

## the xew rohe.

This elaiue coutains 3.600 feet is 1.200 bharea. From Telespaph city it is due nombth thee wiles. The main shaft is

 markution rearmiviutuce. 1 hate a very trigh opiuion of this
 had liere tbe phemente of meetiug au wid frimed whom $J$ had ont smed for timet yeure. who ie largaly ateremed in ithe New Jurk. I stacerely congratulate law upod his goad fortabe. TBE JGEPMITE.
I hure raferved the acervont of this mine until lagt be
 have cosiuntod mir account from the direction I tordo to bave


 whicl. theree bsemm wo doubt of strokitur in the new =buft. over "Lirth a good sued has been buile. It is worked day and tight.
Thie clubes the uccout of foupher diatrict. Yuo con naw juder whether "1hari- i- uothinge aest of Copigarop olife worth

 liv aud Mr. Bowen for mater civilitive: to the ropuriutendpeute gurnarally for the Dberal photrotagre ther have "Ethith-d to ener grajer. I tras nudar yeng able maturemput they will
 Lee rixtus and priviteres of the intell gent aud induririous mituer.

## MININ(i AND sCIENTIFIC PRESS.

As a mame of the correntheas of mur tranelines asent's jultemen, we underatund He..
 day or two assayed at sinall protion of the
 county, athd in yieldeds so 12 it sither, and $15 \pm$ per cent. in copprer. The shaft in only down suf feet. Wur agention predictions that unother l'uiun had been atruck seems veritieti.
G. E. MOORE,

Assayer and Analytioal Chemist,
No. ois Sneramento seect,




ASSAYS!
Promptness and Accuracy secured
By tue Lise ne the Most Inphovid Merhons of
ANALYSIS:
Advautagenus 'Terms for Prospector's Clubs aud Mining Companies.

## J. H. CHURCHILL, II. A.,




RIEHN, HEMME \& 00 ,
A处AYEIRS.
Office, Montgomery street, cor, of Oalifornia
Assays Made of ores, Minerals and Metals.




## AGENTS WANTED.





## EXCELSIOR IRON WORKS,

 71\% \$anaome sircet,Detween Jackson and Phelfic, Sun Franciseo.
GALLAGMER \& KENNEY, Manufacturers of nll hmude of
Arehitectural and Ormamental Iron Work,
 Ding dous with prompliwes,
Orders trum the country promprily attented to.

## New Style of Ladies' Buckle!

W, BOHM,
Inventor and Patiente.

 makenzeren several very' infortuut improvemeness avor any

 It excellis ati nher burkels in

Userulness, Streng th and Appoavance.



118 I streo shartumato
 guarnutwed as to its stongth and haraly ility
W. BUHM, Pato

## TIIE

BRYAN BATTERY

Thin wast tatereat in volved in the reduction of ne can na



ADUNL: STANHNG TIE TESTV.
Thite, whit the Tmpret rments wheh Fixpertenee line


METHOD OF CRUSIING ORF.



## EXVLUSIVFITY ANOI'TED




Efeelthef, Substanthal and Rellables.
Ther ner now excematroly went thromplount the


Thasen Dilla arn consetructed almout entrely of Iron,
 athi trymer ot a tinusphare,
liet Tluwy ure udtupted to
BOTII WIET AND DRY ORUSIIING,
and are warrautent to reduce, with tho aamo weikht of

 ainfurwity of the MII
As an whildne of the thereasing fave with whith there mill- tree revtarlet, we would mentlion that that

 Remertera, wanlullug siventy-mix situmps.
They nre merfectly fittoif nad kot up at our Works, boo







Ophir Mining Co., Washoe Falley, Sun Marcial Co., Mexico, Julum D. Winters \& Co. Esmernlda, Crown Point Co., Gold Itill, Totosi Mining Co., Vi,ginia City, Shebar Mining Co.. Humboltd. Shebr Mining Co..
Lottn Milts Co., Coso.
American \& Yexican Co., Mexico, San Carlos Minine Co.,. Owen's River, Lininn Quartz Co., Aurora, Triunfo Mining Co., Mexico Napr Quartz Co., Amrora, Petaluma Quartz Co., Gold Hill, Francis Mcllus \& Co., Slate Range, Wr. R. Churchill \& Co., Mexico, Willow Aprings Oo., Coso, Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjumin \& Co., Mexico, O. J. Parker \& Co., Nicamgna, Gibhons \& Clayton, Fsmemada, Smith if Clousire, S. F. Reduction Works. Amagoza Mining Co., San Bernardino,

MANUFAOTURED ONLY BY
GODDARD \& CO., at the Paoifio Iron Works. SAN FRANCISCO.
os 135 to 130 First streot, and 120 to 144

MUNLNG \& SCIENTIFIC FRESS.
THE ONL, MINRG, MECHANICAL AND
 continentr.
THIRD YEAR: FMLAB: VI.-NKW SEME


Pubithed The Inventor I


## wth dixpmattl.

The Mechanio and Mfomficturer !

 to extrict
our remares.

The Mining Intercst!
Will And th of grewt value, any it will contiun all thin

 To Chemists, Arehitects and Millmrights. This Journal will be invaluable, All new dereoverine

 agricultural implements, whl the fownhg interest gen erally will beamply discussod.

## Terma.

To mall aubacribora:--Four Pullars nar ammuma Club Ratoe
Fire Coptes for Slx Mumthe sis.

 gratis to any part of the comitry

EWER * SMITH, Publifhere,
Romm 67, Ginvernment husen, Con
Sinsoma \&

## I. U. T. KLEPZIG \& CO.,

## GUN MAKERS,

 DEALERS IN GUN MATERIALS, ga3 Wanhingonatreet, San Franchaco [Oue Ihor abovo Kenruey strect.] Gildlug, and alsa Slver Phatiog, by Fe Elilund. Jolet

## LEANDER RANSOM, Civil Engineer AND <br> SURVEYOR,

Maving been connocted with the public werks of tho Strut of Ohio for 20 yc cars, nat the public surveys of the State of Callifirivia for 7 yours.

> ALSO

STATE LOCATING AGENT.
And ns such linving the salo or 600,000 ACRES OF SPATE SCHOOL LANDS,
At the low price or $\$ 2,95$ per Acre.
Terms-Tworty pere onnt thashi nud tho balano


## D. NORCROSS,

Military Gcods of all Descriptions. Nary Trimmings and Embruideries.
${ }_{17}$ REGALPA FOR ALL ORDERS.

PEOMIE's
PONIIION
OPPONIIION
teamship Lime
 arragua 18 outo what sur her notlew.


M()EİR 'I'AIIO1R, H. B1 ethes............... ('ummander Will he disputhll for PINAMA
From Mission stren : Wharf.
FHLDAY, - - NOYEMHER 13, 188


The Moxes Thylor, Rlame hirir I at trip ham undergone

 io. 407 Washtogton Strent, Fin Fintul wou, Agent,

BOOK KEEPING, 1'enmanship
oommeroial oaloulations, Taumbth dy J. MTY
PRACTICAL ACCOCNTANT.
305 Montgomery sivedt, Cowner or Pine。
TO QUARTZ MUNERS.

James Longshore, Trunk and Valise Manufacturer,



## APARTMENTS.




## FOR SALE.

pateyt iresesfa ruseid iron manting pans.
 P'umpla, hoth Frimo atull Lill: Trad PTpe ; Rubher Ilose ;
 Tin Plate: Sheotrom Sthent Copper Fruit Cans er Yirinus Kinds ;
 Copper Rlvots and Burrs; Iroil Rivots; E.to.

## Wo aro niso manufioturers of tho

UNTQUALLED
MONITOR COOKING STOVE
Or RANGE: for hotets.
To which wo call particur BROOKS \& BACKOS.

BUBBLE MLNING AND HOW TO AVO．D IT．
The recent developments concerning the Siantiago，Dauey and several other mines of lesser note，are teaching a lesson which will not be without profit to all reflecting perple en－ gaged in mining eaterprises of any character．These devel－ opusents could not have occurred more opportune．That they will be productive of heneficial results we fully believe， and it is a matter of no small congratulation that the cost of the lessnn has fatlen chiefly upon shoulders abundantly broad to bear the burthen．
it may be that legitimate enterprise will suffer to a great extent in consequence；but it should be borne in mind，that had turther delay have been made，the consequences would have been far more wide spread and ruinous．Not a doubt can be eotertained that numerous similar speculations have for a long time been in process of＂couking，＂and these timely dencut ments will undonbtedly have the effect to nip many an＂op－ eration＂in its incipiency．and for a time．at least，prevent the attempting of any new schemes of similar character．
Such are the present facilities fur the formation of joint－ stock companies，and so great has been，of late，the desire for this class of investment，that it is carcely possible that the two or three bubbles which have already burst can be all that have been swimming in emptiness i，pon the ocean of speculation with which we are surrounded．Our faith i，hu－ man nature is too weak to discredit the idea that we have not in our midst yet other unscrupulous adventurers，who have been taking gavantage of these favoring circumstances to devise schemes for filling their owa pockets at the expense of others．When we consider how simple the process and how considerable the object to be gained，we need not won－ der that，among California operators，men are found ready and wiling to embark in such promising enterprises．

The first step in a scheme of this kind is to select a vein Where at least a small quantity of gold，silver or copper can be obtained，and it near a prosperous concern all the better．

Two or three flaming reports of surtace indications，or early developments，are then spread abroad through the newspapers，alter which a＂Company＂is urganised．A sec－ retary is now obtained，who，with the promise of a perma－ nent appointment and a liberal bonus，is willing to be made a tool in the villainous scheme．A majority of the directors are either lured into it by paid up shares or liberal fees，or they are selected for the facility with which they may be controlled by the schemers．A superintendent is next sought out，who will be swift to do the bidding of his employers．Now follows the farce of a development．An ＂incline，＂perhaps，is commenced，and extendel downward a hondred feet or so ；a small quantity of ore is taken out，and salled，perhaps with gold or silver，or perchance with rich ore bought or stulen from another mine．The ore thus ＂cooked＂is taken to some mill of establisheā reputation， crushed，and a certificate of the extraordinary yield taken for publication and for private circulation．If the scheme is a large one，this operation is repeated two or three times．Its cost is comparatively nothing，as the proceeds go baciz into the hands of the sthemers．The stock is now put into the market，the＂extraordinary＂results advertised and editorial－ ised in all the leading dailies；shares are eagerly sought for and reported in great damand，as they really are Hvery－ thing looks fair and promising．Even an expert，who may be permitted to visit the m ne，if not especially on his guard， will be deceived by the plausible reports from the mill into really believing that the worthless rock before him is a val uable ore．This may all the more readily ocsur from the fact that but very little difference can ordinarily be seen by even the practiced eye，between rock that will barely pay the expense of crushing，and that which will pay a handsome profit over both milling and mining．Under the exciternent the projectors sell out to their dupes，and the swiudle is ac－ complished ere the first dishovest act is detected．

But，it will be asked，how are the public to distinguish be－ tween a legitimate and profitable enterprise and one of these swindling schemes．First，no man should invest a dollar in any
mining enterprise until he has previously ascertained that the directors and superiutendeuts are men of acknowledged standing for honesty and probity．While it is admitted that mining enterprise，in this State，may hăve attracted more than its average of unreliable or absolutely dishonest men， $t$ is not right，or at all warrautable，to assert that canitalists
who are willing or desirous to invest in such operations，can－
not find a fair amount of honest operators，even in this branch／few rods in width．This gulch is occupied exelusively hy of husiness，with whom to entrust their rentures．ALning Mexicans，from 400 to 500 in number．The only person of diricturs，superintendents and secretaries，should be men of high character．who should be cousidered respousible to so－ ciety，if not to the culurts，for the corr ctuess of their reports and the rectitude of their action in their respective spheres． Ligilimate mining enterpris s will never succeed，in this or any other country，except under such management．Let men of means reluse to inrest a dollar iv any enterprise that is not in the hands of managers who have a standing in the community．Such a course will do more than anything else to expose and keep down the hollow and worthless schemes which，under other circumstances，will always be concocted to d lude the incautions or inexperienced．
It is dangerous to the commnity，and disastrous to the business，to countenance in such positio $s$ men who have proven themselves dishonest or who are recoguizied only as shrewd schemers．Whoever buys mining stoek controlled by such men．may calculate the cha ces as more than even that they will be in some way＂roped in＂or＂swindled．＂We fully endorse the advice of an evening cotemporary who re－ marks that＂suspicrous chara ters must be expelled from the directory of all mines that expect to gain legitimate standing． No man should put money in any mine unless lie has good reason to know that the management is in honest and com－ petent hands．Above all，no one should risk all he has in any mining enterprise，for at best it is very much of a lattery．＂
The idea is not a bad one which has recently been hroached in the city of London，to counteract the very evil of which we are writing，and which has recently assumed quite an im－ portance even in that old established headquarters of En－ glish mining．Several leading mining men are there moving in the matter of the organization of an association，which shall act as a medium of communication between men who are seeking mining investments，and through which any man desiring tu invest may ascertain the character and standing of the meu who control the various companies ；the society to have its headquarters at London，with branches through－ out all the mining localities．Much good is predicted from the inflnence and working of such an organization．We are not yet fully advised of the details of the plan．Should anything definite be arrived at we shall lay it before our readers．

## A NOTHER HUMBUG EXFOSED！ <br> The San Francisco（Colorada）Placer Mines a Myth．

By the Brother Jonathan，which reached this port on Friday week，arrived several persons returning from the new San Francisco diggins－so called－about the extra－ ordinary richness of which so much has been said of late． We have obtained the information，which we subjoin，from Mr．Robert Hamilton，of this city，a gentleman of the most unimpeachalle veracity．Mr．H．spent two weeks in the diggings，visiting both the Walker s and Wenver＇s diggings， conversing with great numbers of miners，or rather，prospec－ tors，for there is no mining，worth the name，going on there． He and his partaer，in the course of their prospecting，sunk at least 25 holes to the bed rock，and，in no one instance， found anylhing more than the mere color；nothing which in－ dicated anything more than fair sluice diggings，when plenty of water could be had at a reasonable price．He returned from the diggings，as far as Le Pas，with twelve others，all experienced prospectors from Boise River，each of whom agrees with himself in pronouncing the mines the most un－ mitigated humbug which has ever been started in California！ Several of the company had been in the mines since last July，and all the gold brought away by the entire party be－ lunged to one man，and consisted of a nugget worth about $\$ 250$ which was taken，by him，from a claim belonging to a company，one of the members of which was a friend of his． This man syent some two days on the claim，and was allowed to crerice on his own account，which he did．All ho ob－ tained for this labor was the $\$ 250$ nugget．This is the only claim in all that region which has yet been found to pay expenses to a．white man！Mr．Hamilton has given us a full and as particular a description of the mines and the route thither as could be obtained in so brief a time：－two weeks－which he thinks is quite sufficient to learn all that will ever be profitable to any one of that country．＂He spent the first week in October in and abont the Weaver＇s dig－ gings，and the subsequent week in Walker＇s diggings，a bout
forty－five wiles distant．The entire ground comprised by the forty－five miles listant．The entire ground comprised by the
former is a stall gulch，some two or three miles long by a
any other nationality among them was a blacksmith，who sapported himself by plying his trade at sharpening picks． The bed of this gulch is covered with boulders，among which is a little gravel．It requires three men coustantly at work to get gravel euough for one mar to pan uat！All the water for panning was obtained by sinking holes to the bed rock． There is not a single rocker at work in either Walker or Weaver＇s diggings，nur was there valer enongh in eilher place to wro one while he was there－nor had there been since the diggings were discovered，so far as he could learn． He saw a large number of rockers in the possesion of miners along Antelope Creek，packed there with the expectation of asing then，but he never saw one which had ever been put， together for use！The only place where it weuld have been possible to work a rocker at all was where the trail first strikes Antelope Creek，and where，within the space of less than half a mile，some twenty Mexicans were at work with pitns－barely paying expeuses．The prospects were so poor that no Califurnian，alter prospecting，ever thought of stop－ ping there．At this point was nearly all the water，except that obtained by digging，which was to be found in the en－ tire region for lifty miles arvund．There was so little here， that the twenty Mexicans at．work with pans rendered it so muddy that it was with $d$ fficulty the mules could be forced to drink from it！
From this point for about forty－five miles up the dry bed of Autelope Creek，and the gulches emptying into it，from the hills on either side，our informant and his partner prospected， and met numerous other prospecting parties，not one of whom had ever found a place which they considered of suf－ ficieut value to locate and wait for the rains，even if they had been sure of their coming within a few weeks．
At the northern extremity of this forty－five miles of dry creek bed，is a sort of ravine or gulch，where the creek－when it is a creek－appears to have its rise．This ravine is some five or six miles lung，with an average of a few rods in width．Along this ravine were scattered a few claims which had heen prospected and were thought of sufficient value to locate．The owners were among the first comers，and each claim had some person stopping upon it and holdi $g$ it for the benefit of the company，the most of whom were out in the mountains prospecting．Only one claim of the entire num－ ber was being worked，and that by tho men with a pren！ Our informant said he did not know what it was paying，but considered it doubtful if they were any more than making expenses．In the course of his prospecting，he found ser－ eral places which be thought might pay with a sluice and good head of water．The prospect of water there was con－ sidered very doubtful by all．Nothing definite could be ob－ tained with regard to the rains from any person，The gen－ eral impression was that some time during the winter they would get a little rain，but probably not more than enough to work much except while it was raining．Neither the general features of the country or the bed of the creek presented indications of anything more．Our informant pronounces the reports of dry digging by crevicing，hlowing，winnowing，etc．， of which we have heard so much，without any foundation， whatever，except in one solitary instance．
Just at the lower point of the mountain range which sep－ arates Walker＇s from Weaver＇s diggings，and a mile or two from where the trail strikes the Antelope Creek，as already described，are two claims，each comprising about one－half of an acre of ground．These claims are located on the top of the hill or mountain some 300 feet above the bed of the creek．One of them hardly pays＂grub．＂From the other there has undoubtedly been a large amount of gold taken ； all coarse gold，in pieces，none less than two－bits in value， and from that up to $\$ 150$ ．Onr informant has seen one worth about the latter sum，and numerous others from one dollar in value up to $\$ 100$ ．This claim，which is worked by crevicing，was taken up by two Frenchmen．Its value soon became known，and the report that the Frenchmen car－ ried a large amount of gold about their persons tempted a couple of Mexicans to attempt a robbery．One of the part－ ners was attacked and mortally wouuded．He killed one of his assailants as he lay upon the ground in his death agony；the other fled without getting any of the treasure．The surviv－ ing partner soon alter sold out the claim for five luundied dollars－there appears to be no doubt abont the amount
－took an escort of twelpe men，and started with his own
and his partuer's grold for Ta Pas. Our infurmant mot the party uluut half way on their ruad as he was goinge to the
 tould it large sum sunt. however. The claim was, undubbedly, pretty weil workied vut befire he sulal.
How the cold was d"possited in this clain is a msatery to Ell who have examinel the lecality. It is sung thand waterworn. and a lomir distance from the creek. Nut the color of gell is fomed fur mome that at mile around, exeept on this the litle place an the top of that hill.
The entire region for latl aniln's is heing thoroughly prospertend. but. at the time of our inforgant is leaving, without resulting in timbing anything of salue. 'This last gramil hom, buy has doubthis hecei gotion up for speculative purposes, by a few copplier mine undars mar Le Pats to attract work men to that lucality, and a firryman or two on the C'olurado. The affair hat simee been stimutated and the chat kops up mainly by a few Jew traders at lat I'as, who hud loeen inducend hy the first repurts to take guonds to that locality. The Nin lirancisco mines may be set duwn as a noost arraut owindle.

## MEXICO-HER TRANE AND MINES.

The rapidly increasing trade hetween this city and the varions ports on the gulf of Califormia, has induced the steamship uwners, Messers. Holladiy of Co., to place the Steamer Panama in the line, and we shall now have regular departures of stmmers semi-monthly, for the ports of Mazatlan, La Pas, and Guaymas. The Steamer Panama cleared for thes ports on Thursday last, with a full freight of passengersand merchandise, in luding large quantities of machinery, tools. etc., for the various silver mines now being energetically worked in Lower Californin and Sonora. Among the passeagers were many miners from the Washoe and Esmeralda districts, who having made a $p$ ospectiug trip to the Mexican mines, are now retnrning with a conviction that a field for labor and profit is opened in that section of country far surpissing anything offered in more northern latitudes. The inlucements held out by the Mexican Government for the enlistment of $\Delta$ werican enterprise in the matter of work ing the mines of that conntry are certainly very great, especially as so many well known and exceediugly rich mines partially opened, but abandoned for the want of necessary capital to work the same. are to be obtained by a compliance with the Mexican mining laws, which are very liberal in this matter. Others of equal value, and being worked by the rude and primitive style of Mexicaus, are to be obtained by a fair and equitable arrangement with the owners thereof who are very ready to dispose of their mines to Allerican companies, providing the necessary capital is emploged in the development and working thereof.

The port of La Pas. Lower Califurbia, is open for the shipment of ores free, and all mining tools and machinery are admitted free of duty. Miners are not taxed, and the influx of Americans is hailed with delight. The climate is not excelled in any other part of the world; the weather in Lower California, especially, never being either too cool or too hot.

A large number of mines in Lower Californ'a and Sonora are now being successfully worked by San Francisco com-
panies, anong which may be mentioned the "Pena," "Tr unfo," "La Ilarroonena," "San Antonio," "Gobernadora, "Ophir." " Cudicia." and others on tire Peninsula; and the "Palma" and others in Sonora. The Palua mine has more recently been taken possession of by its present owners, but from indications presented by the large shipment of tools,
etc., on the steauer Pamama, we are led to beliere that the company intend to work the mine, which has a very favorable history, with the greatest vigor. The "Iriunfo" Company, we learn, have nearly completed their mill, at an expenditure of some forty thousind dollars. The "Marronena" Company bave out a large amount of rich ore, which they intend shipping to Englan! carly in the coming season. Several of
the other compauies, we are informed, also intend shipping their ore to England as being the most judicious move at present, the transportation to ship being only 18 miles from the mines. The "Palma" Company (Sonora) will erect works near their mine, which can be done at comparatively suall expense, as they liave an abuadance of water power
near by.
From information which we have gained relative to the mining interest in Mexico, we are induced to form the most favorable opinions The fact is indisputable that Mexico is a silver bearing country-that Government titles are given
to no mines in that country, except on information satisfactory to the Government that the mines are good. When a title is obtained by regular denouncensent or purchase, it can be relied on as safe a d secure, being protected by the Governameut. Nu rerulutions in Mexico over have or ever will effect own legitimate channel ; and private titles obtained from the
(inwormment will he equally respected by uny power which, perchance, may is the luture have pusmanon thare.
We have not time to emtargen on the subje of the mining intersal in Mexico in this number, but will, in some future
number, have mure to say on this great and growing subjuet

## THE MINING SHARE MARKET.

The mining share market has been much excited during the week hy exciting reports with regard tu thee management, of rather misamagement, of the officers of $t$ wo or three corporations ; notwithatanding which, about the usual amount of busithres has been transacted.

Ophir have been the clief speculative shares. They eommenced the week at \$1,425, and gradutly declined to sl, 130 , seller 30 days, on the announcement of a dividend of 1 instetd of 48 per fuot. Near the cluse of the wrek, a
lographic dispatch was received alographic dispatch was received of a rich diseovery
in the nort ern purtion of the mine, upon the strencth of which the stock was caried up to $\approx 1,6 \overline{0} 0$ on 90 days, hut finally clused at Slatin, with a weak market. The sules for the week reached the number of 1482 shares, a laryer business in this stuck than ever before reported for the same period.
Burning Moscow continues much in fayor with speculators. The shares advanced materially on receipt of intelligence of an injunction against the Uphir, but receded to about previous firures on advices that an application to modify the injunction had been refusend

Nu other especial features have been ohservable in the market during the week. We reler to our report of stock bids and sales.


GALEB FOR THE WEEK ENDING NOV. $2,1863$.




 40 hurning M1. scow, : ©0, br 30 .
20 lfurning Muscow, 300 , br
 10
4
2
2
2
2

Discorery of a Shiper Mine on Lake StPERIOR. - I here is considerable excitement at the East connected with the Lake superior trade, in consequence of the discovery of an
immense depusit of silver beariug lead in that immense depusit of silver beariug lear in that this new discovery. It is stated that the ore yields 20 per cent. of pure lead, and that every ton of lead yields 25 pounds of silver, worth $\$ 300$, besides the value of the lead. Operations will be commenced er long for "removing the deposits.
Cheap Postagr.- - As might be expected the establishing of a unifurm rate of letter postage throughout the United States bas had the effeet to greatly augment correspondence between the Atlantic and Pacific States. For example; says the Alla, there has been an increwse of 25,000 letters via the Overland Mail route since the new law weat into effect on the 1st day of July last.
True largest water wheel in t'e world is about five miles from Douglass, on the Isle of Man. Its diameter is 72 feet, width 5 leet, has 168 buckets 19 inches deep, each holding 9 gallons. It exerts the power of 120 horses, and raises water and coal 484 yards. The axle-centre and crauk weighs 33 tons, and the wheel performs four revolutions per minute with the buckets but half filled. It takes two quarts of oil per day to keep it rubuing smoothly. The cost of the wheel was $£ 3,000$ or nearly $\$ 15,000$.

An Eagle's Fligitr. - It has been ascertained by a traveler in the Grisons, Switzerland, than an eagle flew in his sight five miles in five minutes.

Minhg Agryor.-By reference to our advertising columns it will be seen, that we have made arrangements tu obtain spccial inffrmation, through a resident currespondent, with resard to any particular mine at Reese River. Parties in the city nbout to invest in "feet" in that neighborhood, and not having time or arring to incur tbe expeuse of visiting the locality, will do well to a vail themselves of the opportunity bereby presented of securing reliable information, previous to iuvestineat,
at a moderate cos.
Porsnns nirendy holdiug st fent \& and desirous to learn through a driutterested source the actual condition of the mine is which ther may be interested, will do weil to embrace the opportuilis here presented of securing the desired informaition.
We shall establisb agencies similar to the abnve in all the principal miving districts, at at early day.

## Owens River Canal Company. FOR SALE,


 price, now oltered in this mat ket.
office of the Company No. 32s Soutgomery street,
New Patent Agency.
 The Patent Ageny Busiess, And would iavite luventor, and biscoverers on the Pa-
cific coast, who wish Dispatch as well as Economy to call
upoo us. We bave an txperieuced ageut at Witheg upoa us. We bave an txperienced Ageat at Witholing-
ton, which, tugether with ton, which, tugether with our own experience of severa ears, renlers the Nining mind Scicntific Press Agency Patent on the Pacific coast. Apply at Offce of the "Mining and scienti6c Press," Roon
No. 57 , Governmeat Housc, corner" of Washington an Sansome streeta, San Fraucisco. EWER \& SMITH.

FOREIGN PATENTS OB'IAINED By application at this ofliee, Roum 57 Goverument House
EW \& SMUTH, Nolicitors.

NOTLCE TO INVENTORS. Invontors wishing to ale Careats should apply at this
offce, Room No. 57 , Governraent House. Terms mad:r. Offce, Room No. 57, Governraent House. Terms mondiv-
ETe.
ETER $\&$ SMITH.

PATENT RIGHTS.
Patent Rights Bought and Sold,
the ficice of the "Miuing and scientific Press"? At the office of the "Whivivg and soientific Preess" Agen
EWER \& SMITE.

JMPORTANT TO IN VENTORS. Inventors who obtaiu their Patents through this onice
can have lleir Invpntions. illustrated nud diescribed io cane chumme of this paper Frus of charge, they merely
thruishing the engravings. We are also
frepar nish engraviugs at crasgrable rates. Thise whod do mot care to gn to the cryensc of having engravings prepared
can have ther inventins fully unticed aud riescribed in our columns, free ni charge. The free use of nur columns to nid them in introducing their inventions to the yeutors.
EWER \&S SMITH.

GENERAL NOTICES

## DR. H. AUSTIN,

 DENTIST,No. 634 Washington street, Between Montgomery aunk Kenrn
Baths.)

 st anit hest mathial for thathrury (athin may case and at reastund ble picea.

## D E\&KS

Office Firurniture,
UF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE;

No. 423 Californta St., San Francisco. OFFICE JOBBING, of all Kinds, atteniled to.

## SQUARZA'S PUNCH,

FIRST PREMIUM at the sacramento agricultulal. state fair ALSO F FIRST PREMIUM At the Sap Franclico Bay District Agricultural Fair, 1862 Mastractory, Whodenale axd !mmat, No. 44 Leílsclorff strect, Oprosite the What Cheer House, San Francism.

## FREDERICK MANSELL,

MECHANICAL \& ARCHITECTURAL
DRAUGETSMAN
No. 438 Califorviu street, corner of Leidsdort

El Paso District, Los Angeles Oounty,
MINING AGENCY
C. W. TAPPAN, GENERAL AGENT,
"Head Quarters," Mesquil Springs,
Will attend to any business camuected with these mines
for a reasuab e cousideration.




R. W. MYERS; \& CO ${ }^{\prime}$,

Ohases' New Mill, Fremont St., near Market,
JOB TURNING \& SCROLL SAWING.
BRACKETS,
RED THOOD BaLUSTERS,
NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturers of every description of 0 val , Oircular and Square PICTURE \& LOOKING GLASS FRAMES For the Trade at New Yorb Prices.
$\begin{aligned} & \text { All kinds of Desings for Building, } \\ & \text { R. C. Somes }\end{aligned}$
$\begin{aligned} & \text { W. MyERS. }\end{aligned}$
IIINING LAWS AND FORMS JSTP PEBLISHEDBY H. H. BANCROFT



[^12]GENERAL NOTICES.
HAYNES \& LAWTON, IMPORTERS AND DEALERS IN
CROCKERY, GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery CLOCIKS
Silver Plated and Britania Ware, ETC., ETc., ETC.
NO. 516 SANSOME STREET
[CORNER of mbrchant,]
Sas Francisco.
WHEELER'S
Amalgamating and Separating Pans.
It is acknnulelged by all who have examined the prin-
ciples and withessed the (upreration of these lans, that
 mating lurjoses to any other in use.
The monst important priciple counceted with the ope-


 to flluw the trituration thas luss is entirely armided. In
working these nathines therce is no upprociable loss of zuicks/lver, aud hence nove of the precious mutais.
Where thene Pans bare beev intronuced and operated
by the siuc on onthers nu sands fronm the same rat, the by the side nf ot hers ou sands from the same rat, he
Whbeler Pats have nuifurmy yained a large percentage

 yuter's rounhry, win frst sireet in this chy where and


## Wm. P. TAAFEEE,

importer and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and Sacxamenio streets, San Franetsco.

## REMOVAL,

O
FFICE OF THE PACEFIC METAL Hong entarged our Worbs at North Beach, Ne are Gild rock per day.
Gord and Sller and sulphuret Assagers', or sil
versmat
 ensh, for shipments. 50 . C. BRADHATH, AYent,

NATHANIEL GRAV,
General Furnishing Undertaker, 641 sacramento st, Cor. or webb,


METAL $F$ \& HUTCHINSON'S

## PHOTOGRAPHIC GALLERY,

Having refted the alove rooms the Firm are now frepared to furnish the public with a superior styte of
Picture, at a lower price than ever before offered in the city. CARD P-CTURES.
As we bave every fuchlyt for producing these beautl-
fal pictures, in all their dificrent parietics, we have refuced the price to

## \$3. Per Dozen!

Large sized Phatopraphs \$3-Extra capies \$1 each.
AMBROTPES in all Styler and prices. OID PICTURES copied witb care and accuracy, in any atsle desired. Particular attention paid to pictures of
Chididren. Pietures nainted in nil or Water Colors, and retouched
aug.
in India Ink by a competeut artest.

## HOTELS

International Motel, Jackson Street,-.....-San Francisco [A few doors above Montyomery.]
FIRE-PROUF BRICK BUILDING.
Landing, Busime sse ets \& Places of Amusement
OPEN ALL NIGHT
㛺 (ity Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fine Bathing Rooms attached to tho Barher Shop
THOROUGELY RENOVATED AND NEWI.Y FUR-
Inibleet bisis suring. Every Rouno opeus to the Livit
Air. Ench rom is furninled. with a first quablly
atent suring bed and Har multrrsses. The IuternationPatent sypring bed and Hair miltrrsses. The
al offers to guesis the greatest nuanber and

Best Furnished Family Rooms

 aim to forrila continuance of the puppolar faroor it has enijnyed beretofere. It will be conducted on Tempurance
T. E. Weygant, Proprietor.

Tremont Eouse,
418 and 420 ..... Jacksoun Street,
$T$ His Fine, FIRe. PROOF RCILDING OFFERS MANY anly half a block frum the loor ofice and Cust man Inu-e, und about the same distance from the priucipal phaces of
Amusement.

The City Railroad Cars pass the Door.
The House is conducted on Temperance Priuciples,
whicu secures to our guests quibt.
The prices for bourd and Romms are very moderate-
by the day, meal or week. Wk somat a CAIL FRons ALL.
F. E. WEYGiANI, Proprietor.

For the accommodation of my many guests I have ta-
eos and refurminhed tha
 wishing to put up at either homser, tony take the Tremont with thoir buggngo, FABE.
F. E. WEYGANT.

THE RAILROAD H O U s E.
Nos. 46 and 48 Commercial and Clay S's. SAN FRANCISCO.
Stepien Smith................. Proprietor.
The above Elouse is a Fire-proof bnilding, with Granite Front, and kept on the Furopcian Plan, with board nad
ludginy hy Day or tieek to sutt the conveniedee of our lindsing hy may or tieek to suit the convenience of our Patrons.
The Rooms are handsomely furnished, ophied wilh Pateut Spring Jeds, and Hair datrituees, affirdiug very superior accommodations for tamilies or The Table is
e is suppllen with the best the market affords pricers to sult tne times.
The Rail Road House Conch is always in attendance at The Steamers to ennury pasechgers and their baggage to -he fonce Free of Charge
The House is opea all night.

## P. M. S. C O.

PACIFICMAIL STEAMSHIP COMPANY'B road with the stenmers of the Atlantio and $\begin{array}{r}\text { acifin } \\ \text { Sten }\end{array}$ Steamship Company at Aspinwall.

## FOR PANAMA.

The following steamshing will be dispatebed in the nonth of November, 1863.
Nox. 3a,
Nov. 13th
Nov. 23 d
Will leave Fulsom Street Wbarf, witb Passengers and Treasure, for Panama
at 9 O'Clock, A. M. PONCTUATLY,
And crunect, via Panama Rnilrond Aspiuwall, with For Freight or passage, apply to
A. B. FORBES, Agent.

## MININGAND SCIENT1FIC PRESS

FUüNHRHES \& MACHINE SHUR's.
REYNOLDS
Patent Cat-of and Governor,
LUR STLAAM ENGINES.
187 of thene Invaluable Machines, ARE NOW IN USE
Suving 20 to 6.5 per cellt of the Fuel.

## Steen'g Improved Governor

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Clark'sSteam and Fire Regulator,

Ingersoll's Patent Drill Press,
 Felt for Steam Boilers, Pipes, Etc..

Steam Engines, Boilers, Pipes,

## Anti Incrustation Powder,

## 



E. T. STEEN Aobyt.

No. 33 Framunt strevt, SBat Francince.
MOYNIIIAN \& AITKEN,
Boilor Makors and Blacksmiths,
Mission, between Beal \& Fremont Sts,
sem Frataciseo.
N. B All kinds of Butier and Sheet Irou Work exo
cutui at the blurtest nuticu, and wo the must reasonithit

## P U M P S ! <br> HARRISON'S

## Califormia Lift and Force Pump,

WITHOLT VALYE OR PACKING,
 and least hatie to get out of ordor, of aoy Pumg yet in

ALI SIZES;
Canable of throwing from ONE HUNDRE
THUCSH:ND Galluus per Miute-For sule by
C. H. HARRISON, Pheenix Oil Works,
18.16 617 Front Streot, Sin Francisco,

## 50 lbs MIARINE and

Fire-Proof Paint,





## DIRECTIONS

For heeks of Sthph use two parts sineral Paint, ene Fur Boltomiof Vessuls, use one vart ground sulphur, throg parta hinerul Yaint, mix with Coal Tar and apply Fir sale by allship Chaudlers ad Tratesmen, in tox
of 50 ltece cach, or by the Pacilc Motullurgieal Worka.
as POUNDS FIRE-PROOF PAINT.
When used nn Ronfs, Buildinge, or Fences, it is equa
in covering them with a coat of stome, being perfectiy to covering them with a coat of stone, beli
Fire l'rout, aud costing less than any patat.

## DIRECTIONS

gouse: - Mix three parts Mineral Palat with one part
White lead, thin with Linseod oil: If a ligliter color jis White lead, thin with Linseed oil: If a lighter color is
Whintod, mix toss print, more lead. Reupe :-Vive ma te of Mineral Paint, one part white Leadi, mux witu Linseed nil. Put ir thick on a tin Roo
as one cont wheu properly applied will last three years, G. T. Forque, Superiotendent. U. BRADSHAW, Agt.,

WORKS, North Beach; Office, 509

PALAEKR, ILANLCOM \& CO.
GOLDEN STATE IROIV WORKS,
urnish Custings uad Machinery of all kiods Grnuine Wute Irmen hiofs and Dies. P'alaifer, halisituab \& Cu.

To Quartz Minels. א.nox's Improved
AMALGAMATINGPAN,
PALIER'S PATENT STLAM CIEEST
Tine above comprisatus sectres the meor

 eiteling of thesting sath and in iver, hivewn to bo ather



The puhbie are fuformed hat letters patent have hee


Jons $p$. Gnltakher.
Joskei H. Wemp.
GALLAGHER\&WEFD,
BRASS \& BELL FOUNDERY
LOCK FACTORY.
No. 125 First sircet, opposino amba, next dour to Pacific
Brass and Componabion Castings and Finishing, done with neatnsss and dispatch.
Citurch and steambat belle, of dill sizes
Min Sale to order. Eingithens gingh made and bung
in the best mumer. Rank, Vault, Sture and Prisous
Luck $\times$, also biass Patlocks null SLop Locks of various

All Jobs promptly attended to.--Prices
moderate.
Remored frum Oremon street, between Front and Davis.

## Miners' Foundry

MACHINE WORKS,
First St., between Howard \& Folsom,
san franciscu.
$\mathrm{F}_{\text {UERY Descriprion of iron and brass machi }}$
 patch at the Miners' Foundry and Machine Works, as:
Steam Eugines sind Boilers, Flour, Eaw and Quart Steam Eugines sind Boilers, Flour, saw ant Quart
mill machivery, Miniug l'umps, Amalgamaturs, Retorts,

Particular attention will be given to the munufactur

**** Parties desiring to test their orea practically, minin quantitios will be aforded ample fuclities, free
cost

All partles desiring accurate and highly finished drap ings and superins Maclincry, at mist reasorah'e rate
are cordially invited to call Uefors contructing elsowher
How LAND, AN GEL \&
San Erancisco, February 23,1863 .

## San Francisco Machine

IRON WORKS!

 etc. eld, and Custings of all descriptions made to order Steam Lngines exchanged and for sale hy REPARING promptly nttombed to





## VULCAN IRON WORKS COMIPANY

P. Torquet, Manager,

## STEAM ENGINE ULLDERS and <br> BOILER MAKERS,

Iron Founders and General Engineers,
No 137 \& 134 firs atreet, San Franclaco.
rumphng, flatitig, Minng an uarizerustheng M.cthatily.

Shows and the of the harilese fron,
Stembeat Maclamery ; s.an, flom: nud sugar still
High whd Law lrexthe lane ers of all styles.
Jonson, und
W. T. \& J. GARRATT, City Brass and Bell Founders


## D. MORRIS, MACHINE SHOP

227 Narket, cormer of Beule Street.

## sfanuficturer

WARRANTED FIRE-P'ROOF SAFES sill Work, "f all kinds mate to orler, All kiluss of
j. 13
LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET IRON wollis.
The only exclusively Lofler Making Eistablishment ou the Paclic Coakt Unnect nud contlucted by Practical
Boiler Makers. All orders fur N:w Wrrk, thic repaicime of Old 1 ork, exceuted as ordered, and warrantell at to quality.
old Stand, corner Bush and Market Streets.

## Lewis coffit

[HEODOR KALLENBEIG
Maker of Models FOR INVENTORS.

M
 ic.at Instrumbuts, sicalen, Weights, ete. i
Dis, No.
7.3 m )

## HIRAM WRIGHT, PIGK MAKER,

Has established a Manuftectury for
NO $1 \& 1$ BUSH STRI: at, SAN FRANCTSCO,
[Petween Sunbume and Batlery,]
Where can lo had a suplerior Pick for Miners use As he mandactures all his picka under his owin pereonat
aurpervisinn, he warrants then as being mado of the best matarmal and by the lest workmanship.
Orders attended to and filled promptly and with nis
patch.

## WRIGHT'S PICKS

John WRIGHT, of Sacramento, has estabisned him aelr in San Franciser, for the manufacture of acer!
 tity, nt low rates Orders from the constry promptiy
attended to. N. B.-Nome cenuine anless atampad with attended to. N. B.-Nme Eenuine ampass xamper with
my name.
JOHN WRIGBT, 511 Markel wtrect, Oppoaito Battery, San Framelpen

CALIFORNIA TOOL WORKS!
Jóhn Weichhart,
All Kinds of Edge Tools, Etc.,


 shumber be mellt.

 mathent form, thls will araid coufuriou und grevent errors.

 ar" "x. cuted in the beat atyle of urh, with promplitude, and ut as matorite conf.

## WANTED

By a competent persom, the siecritaryshbs of four Mahng Comptates. Burks to be bipt at the Ofle of tho Mi, big and scientitic Preas, No of Goverument House. нйtre as ubuve.

SOUTL PARK
Quartz Mrill and Reduction Works,
G (ifin AND silvik ones WURKED AT REASON.


## W. W. HANSCOM,

 Steam and Mechanical Engineer,1)esigns furi-hed, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., te. tc.,

## $\operatorname{aug} x$

tate Iron Worke

Eye, Ear and Throat.

## DR. DE CASTRO,

 Oculist and Aurist,W RO Ras practised MN New

 troughly curat. The Shetor cmpluys hiag (by the Sledieal

## Self-adjusting Artificial Tympanum,

Whe mumbana iympuni, alm the the cure of disclarge of 's leatiness Pructicully Iliustrated as to its Nature and Thu selfollyting drtificial Tympanum was first introSedical we butice of the prolessina me the mecting of the
 Lu' hater, nids several musobera of the suctity bore testiAr, Shker Bras ul (member) bore testimony to the Self-


 Merathers of the Menicul Colleg", New York, and the prin-
cipul enters of Eurphe Operaling Rooms, UNION BLOCK, corber of Market and Kearhy bercets Gutruice on Market street
Mr. Editor-Having bern afficted severo cald, and for the last month sufirnug from the montexcruliating pains in my ear, I was noliged to come down to Sin Frabcises in setk relier. After a physichan's
recomeadatinn to wait on Dr. Be Custro, on the corner of recomendatinn to wait ou Dr. Be Custro, on the corner of
Kearny and Market streets, and anderwent one operation, Kearuy and Market atreets, and anderwent one operation,
and it is with the utnost pleasure l can suy my hearing was suduenly abd withunt paifuchtircly resturort. I deem It my 'luy :- make this kwown to the bublic, abd to reJOHN RELEE, Napa Vally. James Callughan, witness,
Sun Framcinco, Ju'y 3utl, 1863.
[From the Daily Alta.]
Ed'res Dariv Alta:
sau Francisco, June 30th., 1863.
l'ermit me through rour widnly circninted journal, to Eny, that my daughter Mary Fillin, has bect aflicted with dinfurss siler ehe was thirtpen montha old, whd that ahe
has heen a member of the Jeaf and Jhanb Justitute sinee it was arganized. On taking her to Lir. De Castro, on tho it was nrganized. On aking her to ur. De Castrn, on tho der lis direction, two oprerations, she latis heard mouds
very distmety; and is now, I am happy testate ja a fair very distmetly; and is now, I am happy tostate in a fair
way to get permadent reief. The result, thus far, is satway to get permadent remief. The resmit, thus far, is ant-
istactory; and $I$ deem this notice due to 1 br. De castrofor
 hicted to give him a trial My haughter has at differcut fitues heen under the care of the nost rkifful pliysicians durists in Califormin, but up to the period of visitiog
$\xlongequal[\text { METASTEL \& DEETKENS }]{8}$ MIN I
SlLYER AND GOLD ORES Tailings, Sulphurets, Arsesuirets, Etc., Etc., Cupellation aud ReGning of Silver aud Gold,
Practical Assays for Sllver and Gold, In Small and Large Quantities, by Smelling, Calorination and Pan Mauipulation.
Works-On the Sa, Brumo Road.
OFFige-No. 605 Nuatgomery st, San Francisco. nov 7 tf.
HEREURN \& PETERSON'S
AMALGAMATOR.
 GOLD AND SILTER ORES, manumactured and exhibited at the Vulcan fron Works,
Noi 137 tud 129 Fir-t sireer, Sill Fraucinco.








## NEW Mininivg agency.


 Private Benelit of Parties in this City or elserthere. Our correspondent will risit
auy mine wbich may be desiguated aud report uplon the generalechracteristecs and contitiou of the same the soununt or work whet may have beet done, etc. A rea. ther information apply at chis office. EWPER \& SMITH.

## Wa. H. Ms.d. <br> Tasodore Yay Tassel.

MEAD \& TAN TASSEL, HATTERS,

## Montgomery st., cor. of Commercial.

 San Francisco.$T$ OUR FRIENDS AND THE POBLIC GENERALLY.
 HAT EMPORIUM, solong conducted ly that tirm.
Mr. Tisumy H. ME.a, fors the last seven years Sales.
mar witu Muess Fiver \& Cu, respectuly solicits a continumance of the pacronage so hong and liverally bestowe uppux the old House, fieling eutire confidence in our abil
ity to suit $i$ i every purticul $\tau$. Mr. THEUDORE VAV TASEELL, for eight yeals with
Mersis Le Gay a Co., woutd be pleased to see bas frouulo at his new place of business. The long yractienl experience of Messrs Mead s Tan Wurk caunut be excelled cither in finith or durabivity Having perficted itrrangenenents, we stall be in comstant
receipt, 1 ly every steatuer of soft gonds of the very Ginest Frencle and American Manufacture.

Rezectilly MEAD \& TAN TASSELL.

MINING NOTICES



\section*{| C |
| :--- |
| C |
| he |
|  |
|  |}

Pioncer Coso Gold nmal Silver Mining
Compary, Coso Diterlet, Tulare Couuty, Cal -Nulce is



$\qquad$


## $2: 6,28$ shures, $\$ 7$.


Emmet Copper Mining Company, No




Ruth Windsor Tannel Company, Es-

 Lerr,
oflice
By
By orde


## Mining Shares For Sale

C. A. CRANE,

Office as Government Block.
975 Shares 910 Shirei Gramada Glld and Silver Miaing Company
910 Shiver Gralada Guld and Silver Maing Company
Virginia Hill, Virgiaia City, 168 Shares Ernea Cons
20 SLares Muhare Miniug Company, La Paz District
Colorado, N. M.
30 sharts Aspinwall Gold sud Silver Binivg Company,
Devil's Gde listrict, N. T.
75. Shares Washing ton Copper Aliniug Gompany, Indiau
Bar. Tuolumne Ch.

2:28, rhares sfoutezuma Gold and Silver 3rining Com-
any, Inyo District, Tulare Co.
90 Shares Owen): County Consolidated Gold and Silver
Mining Cumpany, Iuyo klistrict, Tulare Co.
50 shares Crown Powith Rarine Gold and Sitver Mining
ompans, nrgiuia Disidte,
10 Shares Triunfo Gold and silrer MKiniog Compang
sep28
Heyer Bros.,
Heger Bro
and Fidern.
BOSTO.

$$
\begin{aligned}
& \text { Heyer Brosor } \\
& \text { 406 Batery stret } \\
& \text { SAN FRANCISCo }
\end{aligned}
$$





Hallet \& Davis' Boston Pianos,
Smith \& Bros' Harmonimms, and The Hillet \& Thvis pinno The finen fuspersinn Bridge, whel is is decided waprover

## HEYER \& CO.,

AERTCAN AND EDROPEAN

Fancy Goods, Toys \& Musical Instruments; also, | All person |
| :---: |
| ent abren |
| leli3 |


Capital Stock
10,000 Shares ......... $\$ 100$ per Share.
$\mathrm{A}_{\text {the public, and recomendel as is no offered to }}^{\text {Portion }}$ FULLL PAID AND UNASSESSABLE

LOWNER \& CO., the authorized Agents of the Company
406 Montgomery steet.



 Office of Company 388 Montgomery stree

## ARWTrova

## ARMSTONG \& WILDER,

SEARCHERS OF RECORDS
for uiaing Claims of Real kistate。
RELIABLE ABSTRACTS
guaranteed at reasonable prices,
LETTERS OF ENQUIRY
promptly answered.
ALEXANDER STOTT,
MINING SECRETARY
512 sunsome Strcet, Sau Fraucisco.
ecretary of
Horse sheg, Silver aud Copper, Monte Dinhlo.

T. C. Sanborn \& Co, STOCK BROKEIS,
No. 630, Montoonery S'treet.
Ofhir silyer mang stock,
GOLLD \& CURRY MNLNG STOCK, choliar mining stock, Caluforaia steam savigation cos stock, BOLGHT \& SOLD.
s. f. mlier. $\quad$ w. c.coley

Stock Brokers \& Mining Arents 327 MONTGOMERY STREET,

## P1 Pine, Jor Silice Co's

ALL KINDS OF STOCK AND MINING
Busineas nttended to with Promptness

## L. F. LELAND, STOOK BROKER, No. 621 clay street,

Office Hours, 10 to 11, A. M.; $2 \frac{1}{2}$ to $3 \frac{1}{2}$, P. 3T. Meraber of the Sau Francisco Stock and Exchange Board

## AGENCY <br> For the Purchase and Sale of XICAN MINING STOCKS


 Wy. Fatikner.

## New Bedford Copper Company,


Sheathing Copper;
Brazter's Copper;
Copper Bolss;
Yellow Sheatming Metal:
Coppiza AxD Composition Nams;

## BUSINESS CARDS

## A. C. MORsE, Mining and Real Estate Agent, H A Ving Made arkangemexfs and "FLh, every descriptiol of Jibing stocks in Esme. alda District <br> Fire Hose! Fire Hose!! Fire Hose!!! <br> J. P. D. WILKINS, <br>    ALSO FOR SALE, <br> All kinds of miryszs add sandrsary, at the lowest cath 

## WANTED,

GOLD Quartz suitablefor CUTTING JEWELRY,
by fruntier a. deviercy,
au3I
437 Pine street, San Francisco
THE EUROPEAN ORE REFINING
COMPANY.
Quartz Mall and Furnaces, Bryant Strect, Crossing Third, San Francisec.

RECEIVE ALL KINDS OF

## ORESDAND MINERALS

iarge or small quantities, for such Experienced Treat-
lates europeav methods,

## CAREFUL ANALYSIS,

At their works, to be the must Elfectual in obtainlog re cous Melals they may contain into markutable iogeta, 202 The South Park, and Folsum und Kearuystreet Cars

## The Pacific Mineral Compnay

$\mathbf{M}^{\text {ake liberal adtaices upon the orbs of }}$
Copper, Silver, Tin, Niekel, Cobalt, Zinc,
Lead, and Sulphurbts coatainiva Goid. Wine icconnt taken nf all valaute melts comblined
Partien nwaing undevfloped mines and desiring capital to pruspect the same will receive ascistance, if, uphin ex-
amination, ruch leads sre deemed sulfiently valuablo


OFFICE, No. 1, ODD FELLOWS' HALL,
Mintgomery Street, SLn Francisco.
MARTIN \& Co.,
OFFICE---2\%4 Montgomery Street, Up Stairs
WILL CONTRACT EOR THE
Parchase of Copper Ores,
Assay ing 8 per cent and apwards of Conpyer to the Ton.
We will make ADTANCBS upon Ores of COPPER, TIN
 Hexrr Martin,
J. F. Greenan

San Francisco Post Ofic 3, BnX 1259.

NORTH BEAOH QUARTZ MLL REDUCTION WORKS

## Are prepared A

Working zasers stante of small Iots, und all kindso ${ }^{1}$
Oar verw and comphlcte Mhehinuers, will enable us to sive results fulty

WHEEDER \& THAYER, Propietors.


ROCK DRILLING BY MACHINERY.
The proluction of a reliable and practical Rock Drilling Machine has long been cousidered a must important deside roum. Even in the Atlantic states the demand for a ma chine of this description in running railroad funnels, in removing ledges, in the process of grading railroads, etc., ha long been urgent, and has prompted numerous inventons to try their ingenuity in this direction. Attempts have been made to devise nachines for boring out the entire diameter of the tunnel hy ingeuioasly derised cutting instruments, but without achieving any practical success. Other attempt have been made to work smaller bnrers, on similar plans, so as to reduce the ledge or face of the tomnel to a honeycomb condition, in which it could readily be knocked away hy hammers, etc. All these experiments have proved failures at the expense of enormous sume of money, from the fact that too much was attempted, and quarrymen, miners and others interested had pretty much settled down into the conviction that, while alniost or quite every branch of human labor might be aided more or less by machinery, the common hand or churn drill would have to continue to all time as the only method by which men could work their way into the solid rocks which comprise such a vast proportion of our mundane sphere.
It was just at this point, however, that a couple of ingenious Yankees concluded "it would never do to give it up so," and resolved, each unknown to the other, that if a whole loaf was unatainable, a half of one might be better than n loaf at all; so they each set their wits to work to devise som method for drilling the holes merely, still employing gunpow der, as heretofore, as the chief agent, for removing the rock The idea was a most happy one, for really the chief labor lay in this very work of drilling-the act of removing the rock by powder, was a small work after the hole was drilled The wear and tear of metal-the friction and resistancenecessary to be overcome to chip away all, or neanly all the rock in small pieces was quite too much to render any such machinery of any practical value. Well, as we have already said, our two ingenious Yankees went to work and as good luck would have it, the one pitched upon the "churn drill," while the other took the "hand drill," as his starting point

After some two or three years of careful study "and experimeat each has brought out what appears to be a most eminently practicul machine for rock drilling-the one operating on the principal of the "churn drill" and the other on the "hand drill." The names of these two inventors, who we feel fully convinced have brought out a machine which wil soon be acknowledged as of immense practical value to Cali fornia, are Williab W. Dunn, who may be found at No Front street, and Mr. J. S. French, who may be found a the Miner's Foundry, on the same street, in this $c$ ty.
By oue of either of these machines one man may do the work of at least four men in the ordinary way. Mr. Dunn machne, which operates on the prin iple of the "churn drill,' has already been put to practical test in this State, and cer tificates of its practibility may be seen as well as the machine itself in operation at his shop, as above. Mr. French's ma hine operates precisely like the ordinery hand drill the
blow being giveu by a hanmer, which strikes upon the drill as in ordinary hand use. We shall have more to sny of these machines at a future time. In the mean time we would advise all interested in tunnelling operations to call and examine them, as ahove, and judge for themselves of their practical and comparative merits.

## EL PASO MINES.

Onr II Paso Correspondent, "C. W. T.," writes us that the excitement in that neighborhoood with regard to the 11 w placer diggings two or three hundred miles to the east o that locality, has drawn away the chief purtion of thei hired help,' and that the mino proprietors there are left to carry forward their proj cts us best they can without heip He thinks the mines of that neighborlood will have to lie ide until the "tide turns." Our correspondent has probably e e this witnessed a pretty strong flow of the return tide from which Twe presume our El Paso friends will derive some ain in the way of an abundance of labor at a fair rate.
Our correspondent further writes that "a lot of splendid ore goes up this week (Oct. 22nd.) from the Yarbrough Com pany, but their work has closed for a time, and the Super:n tendent is now going to hearlynarters to make a new start The frame work of Messrs. Narbroe's arastras has arrived and in a few days they will see what they can obtuin fiom the Rochester gold lead. Our bopes of El Paso are as strong as ever, but we must wait patiently and bide our ime."

Time San Francisco Directory for the year commencing October, 1863. Mr. H. G. Langly, the compiler of the above vork, has favored us with a cony, and we esteem it as no ordinary favor. The book is fall of valuable information touching every leading interest of our city, and should be in the hands of every busiuess man. The Directory proper contains 455 pages-in addition to which are 131 pages of advertisements made up from the principal business houses of the city. A large, well executed and very full and correct map of the city accompanies the work. The book is from the Press of Town \& Bacou, and is a highly creditable speci raen of that class of work. We truas the enterprising pro prietor will be amply repaid for his well applied industry.

Mar of Eu Paso.-We have received from Mr. W. Holt the publisher, at. 305 Montgomery street, a copy of a New Map of El Paso Mining District. - The map embraces the localities of Grape Vine City, El Paso City, Ophir City and the Laurel Hill Mining Districts, All the principal mines throughout a range of count y 25 miles long by 12 broad are distinctly laid down, together with a very distinct representation of the topography of the region. The map is for sale by Mr. Holt.

Copper Ingots.-The United States Mining Fiegister published at Philadelphia, in its issue of October 10th., says that conper which in the ingot was quoted that day at thirty two cents per pound, showing an adrance of a fraction ove

Gold Mining near Plaferville-Correction--In our notice of aininy operations at Porerty Point, near Placerville, in our issue of the $2 n d$. ult. we were mistaken, with regard to the New El Dorado Co. We remarked that the operatiuns of this company " had been tied up in law for nearly a year." A note from one of the proprietors corrects us as follows:-
"The Company owns four different claims. The one on which work has been suspended is claim No. 3., but the principle one, and by far the richest and most extensive, situated on Clay Hill, near Big Cannon, has been and still is being worked regularly, by the Company, Its prospects are very flattering. It contains four different ledges respectively called, from the color of the sarface rock, yellow, white, black and red. A shaft 55 feet deep has been sunk on the red lead, which at that depth presents a solid body of quartz six feet wide, rich in gold uniformly diffused through the rock. The White and Yellow leads have been opened by large eats, and several hundred tons of rock extracted therefrom, which prospects well. A tunnel has been for sometime in progress which is to cut each of these four vains at right angles. The indications are that very rich rock will be struck in this tunnel, which will reach the furtherest lend at the depth of ahout 150 feet from the surface. A mill will be erected near the month of the tunnel. The location of these lodes is all that could be desired. being near the floursbing town of Placerville, with an abundance of wood and water convenient. The Harmon lead runs parallel to the veins bove mentioned.
The Mechanics' Institute Fair.-At a recent meetiag eld at the Mechanics' Institute, the subject of holding, an Industrial Fair by that Association next September, was freely discussed. Several of the officers and prominent members took part in the discussion, and stated that from careful investigation they were satisfied that a Fair held by the Institution next September would not only be a pecuniary success; but would tend greatly to stimulate the mechanical interests of the State. The matter was referred to the officers of the Institute, to take initiatory steps in securing private, municipal, or State aid in furtherance of the project, and to report the same to a meeting of the members, to be held on the 20 th instant. We trust the project will succeed.

Our Home Minlas--The Euburban Mning Company, $10^{-}$ cated near the Mission in this city, has levied an assessment of olle dollar per share, for the purpose of re-commenciug work on their tuanel. We understand that the prospects of the company are highly encourag ug, and that it is the intention of the Directors to prosecute the work of developing their ledge with vigor.
The Gord Hill News is the title of a neat and ably onducted daily paper, which has recently been started at Gold Hill. near Virginia City. We recognise in the name of one of its proprietors, $\varepsilon$ friend of other days, when the printing business in Califormia was but in its infancy. The News is the representative of a most important locality on the Eastern Slope, and we trust it will receive that support and encouragemen' which it appears so well to merit. It is and encouragemen' which it appears

## MININGAND SCIENTIFICPRESS

## KUSTEL'S PROCESSEAS OF SILVER AND GOLD EXT\&ACTION.

Among the items to which we may today call favorable attention is one noticed on page 121. An instance is there narrated which occurred in the author's practice in Mexico He there states the result, "metallic copper iu place of iron" (in barrel amalgamatiua) "acts with little less energy than the iron, but not reducing the copper and lead chlorides to the metallic state, it renders a very pure amalgam."

Another process to which, however, Mr. Kustel makes some objections in view of the fineness of panamalgamation, is of interest from its anulogy with Patterson's lead process. It is due to Mr. Sutro. Mr. Kustel writes thus:
It is known that the silver amalgam that is obtained in the pan analgamation, consiots of regular crystals which are suspended in the quicksilver. 'The lead analgam, on the contrary, is entirely dissolved in the quicksilver when hot. If, therefore, the quicksilrer is presseul through a cluth while hot, the dissolved lead amalgam is found in the quicksilver, and the silver amalganin the cloth. A second filtration of the quicksilver when cold, gives the lead amalyam. The lead ocutaius three or four per cent. al silver.
We intend next week to present some comparative statistics of Califorian and Australian pan amalgamators.

## IMPORTANT TO WASHOT OPERATORS.

By a law of Nevada Territory, persons who may have cases for suit in claim for Miaing Gromd in that Territory, must have ineir complaints and answers filed before the 21st. of November, iust., or their claims will be forever thweafter barred. Persons who think they have claims for mining ground, now ia possession of other parties, and for which they are intending to bring suit, will do well to take nutice of this item, or they will lose the opportunity to secure their just rights.

A Notable Death.-Oliver Ames, of North Easton, Mass. died at his residence on the 11th. of September last, aged 86, But few men have lived in private life in this country, more universally or more favorably known among the laboring classes than Mr. Ames. He wàs one of the first among American Mechanics to andertake on anything like an extensive scale, the manufacture of shovels. He legan business, when quite joung, with limited means, and under circumstances which would have utterly discouraged almost any other man; but by a course of industry, integity and energy seldom displayed, his business rapidly increased and the reputation of his work excelled that of all others on the continent. Mr. Ames never made a poor shovch. It was our priviledge to visit his establishment, and make his acquaintance some 26 years ago. We never met a more unassuming
man, or one more beloved or respected by his employees. man, or one more beloved or respected by his employees. Even at the time of our first visit, which was often repeated
at subsequent interrals, he had acquired a handsome fortune, and entrusted his business mainly to his sons; yet his mode of life was plain and simple. He never, to the time of his death, made any ostentatious display of his wealth. He lived to a good old age, and died, at the close of a well spent life, respected and lamented by all. His life may justly be regarded as an example for every American mechanic.

Among the inventions recently announced is a "ship's berth boat," inteuded to prevent sea sickness. When used as a berth it accommodates itself to the motion of the vessel after the manner of maxiner's compass. In case of shipwreck, it may be used effectively as a life-boat,

Remarfable Occorrence.-A neglo cook in one of the regitments on Morris Island lately conceired the idea of making. sinkers for fish lines out of the lead around Parrott shot To this end he placed a shell in a stove and sat down, ladle in hand to catch the molten lead as it fell. Just about the time the lead should have fused, the stuve seperated into very minute fragments, and the last seen of the smelter was a series of involuntary gymuastics creditable to his agility but unpleasant from their ahruptness.
The Boise Mines.-Mauy persons are ignorant of the location of the Boise mining country. They are located about three huudred miles south of east fron the Dalles, Oregon; Umatilla and Walla Walla, Washington Territory; and some two hundred and twenty-five miles east of south from Lewiston, Idaho Territory.
Stramer For Tauoe.-John A. Crocker, of Sacramento, is going to Lake 'Tahoe, to construct a small steamer for navigatiug that romantic sheet of water.

The Mount Diabio Coal idines are now sending to market about 4,000 tons per month, the quality of which is constantly improring; it is now selling by the cargo, alloat. at $\$ 10$ per ton, Ooose Bay" Coal, (Oregon) has beeu sold at the sane price, which is also the present market value of that from Bellingham Bay. The steamer Esmeralda, which tows vessels on the Sacramento river, uses coal from the Mount Diablo mines, which it procures at Antioch. The boat has used this coal for making stean for some time, and its owners have great faith in it. Antioch is the location of the Copper Smelting Works, which are also using the Mount Diablo Coal.
The consumption of domestic coals is constantly on the increase, consumers being driven $t_{\text {}}$ its use by the high rates ruling for all other coals and frewood. This latter article is now very scarce and high, and readily commands by the cargo \$10 @ \$12 per cord.
National Finances,-It has been calculated that the present war impuses an average burthen of $\$ 20$ per head upon each man, woman and child in the loyal States. Great as this tax may seem, it is nothing to the burthen imposed upon the people of England during the six or eight years of the Napoleonic war, which was calculated at an annual levy of $\$ 41$ per cap $t a$, or a little more than twice the tax now resting upon this nation. It should also be borne in mind that the loyal States are now far better able to bear even the burthen which England sustained from 1809 to 1816, than that nation was thea, inasmuch as we have now reached a ten fuld greater degree of developement, in resources and commerce, than Great Britain had fifty years ago. These figures and lacts are sufficient to show pretty conclusively the ability of our people to boar the burthen imposed, and the fully of those financial croakers who are predicting anarchy and confusion as the result of our present extraordinary national expenditures. Those who make these predictions, whether among our own people or abroad, understand but little of the character of loyal Americans. The recent elections, even if we ignore all past history, afford abuudant evidence that there is no place in all this great republic, for a party which would inscribe upon its banners the repudiation of any engagement necessary to sustain the integrity of our governinent or the permanency of the Union.
'I'fe Debt.-It is stated semi-officially that the Governmeut enters upon the third year of the war with a debt of $\$ 1,220,750,000$. Acting-Secretary of the Ireasury Chittenden is reported to have said, in the course of his remarks to the Ohio soldiers in Washington, about a year ago, that foreign capitalists were beginning to invest extensively in Government securities: In a single duy $\$ 350,000$ worth of United States bonds were issued on foreign account. The money for the payment of the entire army to the close of November, which the Government now has on hand, was advanced by foreign houses.
Foreigners.-It has been estimated from facts obtained from the census and emigrant reports, that the number of foreigners in the loyal States, at the present time, including the children of foreigners born siuce the arrival of their parents in this country, exceeds one-third of the entire population of those States. The number of naturalized citizens in the entire Union, it appears from the receat census, is 4, 136,000, made up of the following nationalities:-

| Ireland. . . . . . . . . .1,611,000 | Italy . . . . . . . . . . . . . 10,000 |
| :---: | :---: |
| German States . . . . $1,198,000$ | Denmark. ... ...... . 10,000 |
| England. . . . . . . . . . 430,000 | Belgium. . . . . . . . . . 9,000 |
| Euglish N. America, 250,000 | Poland. . . . . . . . . . . 7,000 |
| France. . . . . . . . . . . 109,000 | Mexico . . . . . . . . . . . 7,0011 |
| Scotkand. . . . . . . . . . . 105,000 | Antill. s. . . . . . . . . . . 7,000 |
| Switzerland. . . . . . . . . . 53,000 | China. . . . . . . . . . . . . 5 , 5,00 |
| Wales. . . . . . . . . . . . 45,000 | Portugal . . . . . . . . . . . 4,000 |
| Norway. -.. - . . . . . . . . . . 43,000 | Russia. . . . . . . . . . . . . 3,000 |
| Holland. . . . . . . . . . 28,000 | Turkey . . . . . . . . . . 28,000 |
| Sundry | .............. 204,000 |

## Total.

. 4,136,000

California and Japan.-The New York Stockholderer of
October 6th., says:-"Parties interested in the trade between Cahfornia and Japan are in town, looking about for fast steamers. It is proposed to form a line from San Francisco
to Japan. The steamers, will natually, be armed, and will to Japan. The steamers, will naturally, be armed, and will ment, or by the priaces of Japan, so as to be available in case of war between Japan and any other nation. In view of the relations between Great Britain and Japan," it adds "it is hardly probable that our shipbuilders will supply the
vessels required."

Copper. - "We learu," says the Calaveras Chronicle from gentlemen who lave lately visited the mines in Campo Seco, that the copper mines of that famous district are constantly improving; three of them are raising and shipping the tinest qualit es of ore. Parties are prospecting for lodes in the neighborhood with every probability of ultimate success:
It is now pretty generally believed that copper cannot bo found near the surface, and companies are sinking their shafts the depth of from one hundred to two hundred feet before they loose confidence in their work. If found, a good claim is a fortune to the lucky miner, and will be a permanent source of wealth to the community. Unlike the early gold| diggings, which generally gave out by the time a town had been burned out once or twice, a copper distriet will warrant business men in putting up fire-proof buildings, and insure permanancy to even a California population."

Artesian Well at Napa.-The California Steam Navigation Company are sinking an Artesian well at Napa, for the purpose of supplying their boats at that place with pure spring water for steam purposes. Experience has satistied the company that the damage to boilers and machinery from the use of the brackish waters of the Bay and rivers is more expenisve than the cost of procuring pure water in the manner indicated. The well has already reiched the depth of 260 feet, and the company are confident in the belief that they will soon find the desired supply.
Land and Naval Practice.-It is accounted as a singular fact, (if it is a fact,) as recorded by our Eastern exchanges, that while not a single accident has occurred to the guns on board the Ironsiles and Monitore, five of Gen. Gilmore's guns of the same calibre as those used by the navg, have exploded or become damaged since the siege of Charleston began, Experienced naval officers explain this by the fact that the projectiles used by the Momtors were " slushed" or greased before being rammed home.
The Flutrd, Nail.-The London Builder says a company has been formed to bring into practical use a spiral fluted nail, recently invented in England. They are fluted and twisted in a machine, and are manufactured as cheap os common nails. The holding qualities of the nail are remarkable; no holes are required to be made before driving those of any size, and there is no danger of the board splittiog, however near to the edge the nail is driven. The spiral point causes the nail to revolve as it advances, and its tenar city of holding is equal to that of a wooden screw.
Prices of Cotton and Cotton Fabrics.-At a sale of cotton, October 8th, in New York, on Government account, 806 bales of Upland were sold in small lots, at prices higher than have been obtained at any otker time since the outbreak of the present war. That which was in good condition averaged from 907/8@92c. One lot in rather bad order brought $821 / 2 \mathrm{c}$., about the average price of Upland cotton for the year past. The market for cotton cloth, in New York, has recently advanced very materially. Standard sheetings, on the 12 th ult., were quoted at 40 c . and upwards; standard printing cloths at $17 e . ;$ madder prints at 25 e ., with a light business. Woolens have also advanced, but not in proportion to cotton.

About 300 men are now engaged in gold mining on the Chandiere river, near Quebec, C. E. The gold found there is in the form of small pellets, and is very pure; but searching for it is tantalizing. Some men will labor for days without obtaiuing a single grain, while others will make about $\$ \overline{0} 0$ dollars per day.
Sex of Eggs.-Poaltry fanciers have for a long time been endeavoring to find the sex of the chicken that would be produced, by the peculiarity of the egg. Two plans have recently been circulating through the papers: first-rough ends will produce cocks, and smooth ends, hens; second-if the air-bubble is in the center of the end, a rooster, and if at one side, a pullet will be hatched. Chas. H. Graver, a Long Island farmer, who does not take all he sees in print for granted, has experimented with the following result: first-of nine birds liatched from rough end eggs, seven were hens, and wo, cocks; second- of thirteen birds hatched from 'eggs with the air bubble on one side, seven were cocks, and six wore hens. So both these theories were upset.
G. E. MOORE, Assayor and Analytical Chemist, His


प S S A Y S !
Promptness and Accuracy Secured By tue Lise of tue llost Inproved Mathons of
A N A I, Y S I
Advantageous 'Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHLLL, M. $\mathbf{A}_{1,}$ (Frax Eetiors,)



RIEHN, HEMME \& CO., ASSAYERS.
Offioe, Montgomery streat, cor, of California

## Assays Made of ores, Minerals

 and Metals.REPERRETD WTTI MPRMSSSYOX TO
 R. BSWALN, Esq., JUSUHHEE, BALSION \&CO. m : 4 practical Assayer.

## AGENTS WANTED,

Wo want $a$ gion Agront in eqery ciy, thwn and settle.


## MEAD \& VAN TASSEL, <br> HATTERS

Montgomery at., cor. of Commercial, San Francisco.
To OUR FEIENDS AND THE PUBLIC GENERALALY1 Huring l'urchan+il the er.t.re intere t of Muszrs

HAT EMPORIUM so long conducted by that firm.
Mr. Willias H. Mead, for the last aeven yoars Sales-
 tinualice of the patronate sni long and linerally bestowed
upon the old Honse, fuelong ontire coulidence in our abil. ity to auit in crery particulir.
Mr. THEONORE FAN TASSELL, for eight yenta with Mr . THEONORE FAN TASSELL, for eight yenta with
Mersis LeGuy \& Co., would be pleased to new his frienals at his unv piace of business.
The tone practan expurience of Messra Merd \& Van Tasgell in the Trady juxifips therm in saying that their
wont cannut be excelleif cither in fini-h or durability. Howng perfieted arrancements, we shall be in constant
Hecejpt, isy erery stamer ni suft giouls of the very finest Fiongle and Amertcan Manufacture. Our Stock now on hand is auperth.
Call and cxamine, and judge of the nerits of our claim Call and examine, and judge of the reer
to the title of "LEADERS OF FASIION. MEAD \& VAN TASSELL.

## New Style of Ladies' Buckle! <br> W, BOHM, <br> Inventor and Patenter.

THE EURSCRIEEP, HAVIVG OBTAANED LETTERS PAT. ent from Wishingtrn for an improvement in the
construction of Ladies' Buckles, is now ready to construction of Ladies' Buckles, 18 now ready to fur-
nish the same in erery varicty of style. This buckle other in uso.
 Patent Omer, has been adjudged to be a usciul improve-
meat, and Lanters Patent have deen granted for 17 years. It excelis all other buekels in
Usefnlmess, Strength and Appearance. The Public is respectully invitod to call and exami
thia Buckie at the Jewelry Fstalisishent of

BRAYFRMAN \& LEVY,
621 Washington Street, San Francisco
607 Montgomery Sitreept, Sna Francisco. FLOBERG \& CONRAD, 118 I Stret, Sacramento. Ever Buckio sold, stnmped "Wh. Bohm
aranteed as to its Sttongth ani Dirability. W. BOHM, Patenteg.

## TIEE

BRYAN BATTERY.

The vast interest involved in the reduction of ofes on




ALONE STANDING THE TEST. Thas. wht the luprovements whicls Fxperiencer hase mis revlibilo
METHOD OF CRUSHING ORE.
The Fryay Batmak, as now cutistructed, is believed combut all itro ithorovemente wheth the experierce

## EXCLUSIVELY ADOPTED

hy many of the most prominent Xining Companios in the country, and hnve. liwh, for tho three past ypars, sulsIw tid to the ment severe of all tests-that of coustant
unc-and in every cuse have beon prouounced

Effectite, Substantial and Reliabie.
They are nots extensivaly usen througbont the
 equalled in any plece of miniog nuachsuery.
These Mills are constructed almast entirely of Iron,


## BOTH WET AND DRY ORUSHING,

and are warranted to reduce, with the same weight of Stamps, 25 per cent, more rock than any other mill in use. Ench , Batery is complete in itself, and forms a
perfert milt-while any number of them can bo added at a subseqent time-1hus preserving the symetry and uniformity of the Mill
Anan arinnnce of the fincrasing favor with which thrue mills are regarded, we Wnuld mentinn that the Colobrated ophir Company first introinged them into their works in 1800 , and have heen ainling a number of
Butterles, earli subecquent year, until they now have Patterles, carlisubecquent year, until
Nineteen, running Sevonty-six Stampa.

They are nerfectly fitter and set up at our Works, be-
ore shipping, cacly piece being markerl and numbered, so that they can he put un and set at work in ton hours
after artivige on the gronud. They are made of two sizes, four ind five Stampis each. The Four Stamp
Battery weiching complete abont 8,000 nounds. nand the Five Ntamp abnut 7.000. The Mortar Bed veing cati in sections, When desired, so
packed over any mountau road.
We annex the names of $\frac{\text { few well known companies }}{}$ Who have adopted them-running from frur to
ive stamps each-to whom refereuce is made:

Ophir Mining Oo., Washoe Valley,
San Marcial Co., Mexico,
John D. Winters \& Co. Esmeralda,
Crown Point Coi; Gold Bill,
Potosi Mining Co., Ti.ginia City,
Tajo Mining Co. ${ }^{\text {C Mexico, }}$
Sheba Mining Co., Humboltd.
Loita Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co.., Owen's River, Cniou Quartz Co., Aurora, Triunfo Mining Co., Mexico
Napa Quartz Co., Aurora, Napa Quartz Co., Aurora,
Petaluma Quartz Co., Gold Fill, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso, Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamin \& Co.. Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smith \& Clouser, S. F. Reduction Works. Amagoza Mining Co., San Bernardino;

MANUFACTURED ONLY BY
GODDARD \& CO.,
At the Pacific Iron Works,
SAN FRANCISCO.
os 125 to 136 First street, and 126 to 144

MINING \& SCIENTIFIC PRESS,
THE ONL, YMINYG, MECHANTCAY, AND SCIEATIFIC PAPER ON THIS

CONZINENT.
THIRD YEAR: VUICME YT.-NEW SERIE:






PEOPLE'S
OPPOSITION
Steamship Line!
 Line have hern whatirawn from ihe NI-
casugua routc until furiher Hotice.

## GRBA' REDECTION IN RATES!:!

The Fins and Fuvarite Doulte Englino steam-lip,
. II. Blethen.............. Commandir
Will be dispatdh for PANAMA
From Mission strest Wharf.
AX, $-\quad-$ NoveMBER 13, 186
Punctually at $\theta$ o'cluck, A. M., on
gat Apmwall, by the Pauama hailroad, with Connecting at $A$ epmwall, by the Pauama Mailroad, with
be spmendid ster mablap LLLINOIS ...

Tho Moses Thylor, aince her 1 at trip bun utatergone
 repaintent thrtughomt-making her accomodations equal to any strmmer on the riemu.
For furchaer information or Phange, apply to
I. K. RobsRTS, Agent, No. 407 Washiugton Streot, Sinl Francisco, Agent,

## BOOK KEEPING, Penmanship <br> OOMMEROIALOALOULATIONS, Taught by J. S. LUTY <br> PRAC'TICAL ACCOUNTANT, <br> 305 Monigomery Street, Corner of Pine.

## TO QUARTZ MINERS.

A persons interested in Mining MaA chhery nere invited to call at Jonabue's Fonk dry und ably superior to any thing now kiown for amalgamating Silver and Gold. It works 1000 prounds at a lime, and
will rmalgamate over three tons a day. By the motion will nmalgamate over three tohs a day. By the motion of the revolving muller, the pulp is drawa through its centry and passes under it, betwcen the grinding sur-
faces, to the circumfermice: from whence il passes again faces, to the circumfermee : from whemce it passes again
over the muller to the contre, through the holes aud between the grinding surface in the circumference ts before. Thus a constaut circulation of the pulp is kept up,
bringing the parlicles of ore again and again under the oringing the particles of ore again and again imier reduciug tho whole mass to an impable muller, and reduciug tho whole mass to an impalpable No quicksilrer lics between the surfaces to be grnund,
but at the circumferenceand centre of the pan where the metal must pass brough it as the pulp circuates. A noA miteut was granted for inis Amagnmator in Do-
cember last, und all pergous are again warned agningt on my patent, und a suit is now peuding In the U, S. Carcuit Court aganst the parties infrioging. My Analpa-
mators can be secn rumbing at Dunahue's Foundry, where mators can be secn ruming at Dunahue's Foundry, where
all can judge of their operation nud the very superior style :n which they are being manfactured.
sep21
TIOMAS VARNEY.

## PATRONIZE homie manufacturies!!!

James Longshore, Trunk and Valise Manufacturer,

## LEANDER RANSOM, Civil Engineer ANL

## SURVEYOR,

Having been connected with the pulblic works of the State of Ohio for 20 years, and the publi surveys of the State of California for 7 years.

## ALSO

STATE LOCATING AGENT.
And as such bavidg the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of 81,25 per Aere.
Terms-Twenty por oent in cash and tho balanco os a cradit or several years.
OFFRCE, 328 Mont
Momery streets.

## D. NORCROSS,

Military Gcods of all Descriptions. Navy Trimmings and Embroideries.
REGALIA FOR ALL ORDERS.

307 Sansurae Sreet, uuder Tehnna Honse. Trunks and
 Vulises, aud a fine assor tmont or L.ADIESTR RUNS
stanty ou hand. Truals covered and repairod.

## APARTMENTS.

 Washinatuan, street. Perouss dresirious of a respectinve Wo Wank ind street Perous d

## FOR SALE.

Patent pressed ressia iron minng pans,

Portable Forges ; Cauldron Kettles ;
Pumns , Doith Fraim oud

Wrought Irou Pipe; $\quad$ Brab: Play Pipe



We are also manufacturers of the

## UNEQUALLED

MONITOR COOKING STOVE
Or IRAGE,
For Hotels.
To which wo call particular ntention.

CAL FORNIA MINING INTERESTS JN NEW YORK.
The New Fork Stockholdir, after noticing, at some lengtlr the receipt of the first issue of our "Mining Directory," and the accompanying remarks upon the mining interests of the Pacific coast, adds:
" But the remarkable movement of orga ized capital, now going on in Californa, is certainly something more than a mere speculation. It answers a public want. Untold riches lie buried in that country ; to bring it to usefulpess and develol e it, organized capital is necessary. The opening and working of our mineral deposits, throughout all the States, are but in their infancy. People will invest more and more their spare money in minng nperations, because, in spite of many failures, in spite of fraudulent speculations, they feel that there is a degree of certainty in them, which no othe field of industry can afford. With a sufficient capital, with integrity and ability, mining companies camot fail to be profitable concerns to their stockholders. Patience also, and perseverance, are conditions reguired to be successful. Some years ago, stocks of some mibing companies of San Francisco could be bought for a piece of bread, because, after a small expenditure for devplopement, they were nmble to pay any dividends. The original sharehulders who got rid of their stock, at that time, were lusers of course ; bat those who purchased stock and kept it have been singularly rewarded for their perspicacity.

There is no speculation having a greater character for certainty than mining operations, provided they are properly conducted. When mines have gone through a process of developement to ascertain their value; when indications of a metal in sufficient quantity have been obtained, there is 110 reason why those mines should not become good and paying dividend concerns. California is too far from the action of our capitalists; but the movement so energetically going on in that State to foster the mining interest, is an indication that large profits await those who will invest their money in nearer States or Territories, for the purpose of developing their mineral wealth. Colorado seems to us the must promisiog field for New York energy and capital ; for we helieve that it is destined to repeat the marvels of California, regarded till to-day as the mineral wonder of the world."

Carlessnmss in Using Gas.-The late unfortunate accident by which a promising and inteligent lad of this city lost his life, should operate as a caution to persons using gas, especially in families where children or domestics, often unused to gas, may have occasion to employ it. Many persons have a habit of lowering the gas light in their bedrooms to a faint et at night. This, to say nothing of its pernicious influance upon the health, may be productive of serious aecidents. When the gas is redaced solow, a very slight cause-the buzzing of a fly ever-will serve to put it out, and the sleeper is left to inhale a poisoned atmosphere, or to incur the risk of an explosion should any oue chance to enter the room with a light. Where gas lights are thus lowered, a glass should always be used as a protection to them. Many fires have occured in consequence of the dim light, not noticed after sunrise, on the window being opened by the occupant or servant; the curtain is blown against the buraer and a
fire ensues." fire ensues."

## ESNERAIDA STOCK REPORT.

But"little business is being done at Aurora in the way of transactions in mining shares, by reason of the great scarcity of money there. Tbe principal transactions are consummated by parties from this city, at a very low figure. Owing to various untoward causes, which will soon cease to exist. many a hard working miner, in that region, has been, or soon will be compelled to part with valuable feet at a sacrifice to supply actual wants.

We notice among the latest quotations, the following
Twenty shares Western Summit, $\$ 13$ bid; 20 shares Lexington, $\$ 15$ bid -21 asked; 75 shares Cortez, $\$ 4$ asked : 5 shares Utab, $\$ 45$ bid- 60 asked; 10 Grockett, $\$ 44$ lid - lio asked; Ural, $\$ 175$ asked; 50 shares Dora d, $\$ 13$ bid- 20 asked; 10 shares East Del Monte, $\$ 20$ asked; 10 shares Mulberry, shares Locomotive, $\$ 25$ nsked; 10 shares Pittsburg. $\$ 15$ asked; 75 shares Rosalee, 44 asked; 10 sliares Stonewall, 25 asked; 75 sbares Ada, $\$ 2$ asked; 200 shares Dasling. Wave, $\$ 2$ asked; 10 shares W estern Tunnel, $\$ 15$ asked; 10 shares Clan Alpine, \$4 asked; 25 shares Cortez, 4 asked; 10 shares Durand. $\$ 25$ asked, 50 share. Gov. Stanford, $\$ 3$ asked; 25
sbares Napoleon Tunnel, $\$ 5$ asked; 50 shares Rosalie, $\$ 4$ shares Napoleon Tunnel, $\$ 5$ asked; 50 shares Rosalie, $\mathbb{\$} 4$
asked; 25 shares Yankee Jim Tunnel, $\$ 4$ asked.

## THE COPPER INTEREST.

One of the most encouraging features with regard to the--opper interest is the immunity which, as a general thing, it has thus far secured from the speculative mania which has so completely enveloped evergthing in the way of silver min-

Holders of copper shares, of real or perspective value, arpear to be satisfied with their ventures or investments, per se, and scemed to bave little care for auy speculative operations. Hyery one who has got a few feet in a developed or highly promising copper mine seems to have arrived at the conclusion that co; per is to be the stand-by-the sure thing, for permanent inrestment; and but few are found in the market with their "feet." The $p$ rmanency and uniformity of mines of copper are well known, and the fact that but little machinery, and that of the simplest and most inexpensive character, is required to dress and concentrate the ores, which immediately on such preparation have an easily ascertained and standard value, renders it extremely difficult to "operate" in copper. The thousand and one cases of "sharp pactice" whi h are so casily concocted in the derelopment and management of silver mines, are almust universally impossibilities when applied to the baser metal. A copper mine, as a general thing, alter the bed of ore is once struck, can be so managed a- to very nearly or quite pay the way to its fullest development. The day that a ton of ore is raised to the surface its actual value can be ascertained, and capitalists stand ready to advance very closely approximate to its full worth, and take the ore from the very month of the mine. Copper, of all the higl priced metals, is the one in which capitalists of either large or small means, can most safely invest, or the miner, with no other capital than stout arms and a willing heart can most conveniently embark.
We continue to hear favorable accounts from old copper localities, and new discoveries are almost daily announced. L. ring the past week we have heard of " most wonderful developments" in Indian Valley, about forty miles northwest of Colusi. It is reported that specimens of almost pure copper are taken from the ground, in large quantities, but a few feet only from the surlace. One correspundent says " you can find copper in chuncks all over the surface, ranging from 45 to 90 per cent. and the best in the State. Pieces have been found weighing ten pounds, containing nipe pounds of copper," and again, "the people from all the surrounding country started of, [for the locality] some is buggies, some on horseback, and some two on a mule."
Again, far to the south, and from near the extreme limit of the copper belt, so far as traced in that drection, we find the following item:-

Copper Prospects in Tulare--The copper prospects in the new mines on the Chowchilia, are improving. A specimen, about four ounces in weight, was lately taken from the "Tom Early " vein, completely stadded with pure cupper.
The Gardiner Company, is few miles above Auburn, have struck a well defined ledge, fourteen inches in thickness, which, it is said, will assay from twenty to thirty per cent.
From the Colorado we also continue to hear most favorahle reports. Erom a gentleman, skilled in matters, mining and inetallurgical, who has recently spent some considerable time in that region, we learn that the fars which have hetherto obtained to some extent with regard to the permanence and reliabillity of the mines there, are entirely without, foundation. He assures us that the copper mines of Colorado present as strong indications of continuity and depth
as any other mines in the State, and that the general geological features of the country are as favorable as could be desired. . I'bis gentleman has promised us some account of his experience and observations in the Colorado mines. Late letters from that locallity state all is prosperity in the mines, on the Colorado, and that "new discoveries were of almost daily occurrence. A number of companies were getting out ore for shipment. One or two warehouses are in progress of erection at the La Paz landing. The steamer Cocopalt was discharging a large cargo of miners' supplies at the La Paz landing, October 22d. She would carry below a number of tons of ore, which had been delivered at the landing by Mr. Tyson for shipment."

Dr. H. 'T. Stevens, the agent for the Colorado Steamboat Company at Fort Yuma, recently arrived at Los Angeles, reports that the boats, on their last trip up the Colorado, touk tools and supplies for twenty companies, who intend
opening the different leads along the river, and large ship-
ments of ores will soon arrive in Sam Francisco from that section.

The ship Invincible, which has just loaded at this port for Boston, has a large quantity of copper ore ou board.
The ship Industry, now loading for Europe has 20 tons of copper ore on board from the Arroyo Seco, a very promising mine, recently opened about three miles from lone City This ore is sbipped by Wm. Shiels, Esq., of this city. The same company have also sold another lot of similar ore to the Antioch Copper works.

## THE MINING SHARE MARKET.

The Mining Share Market still remains quite active, but transactions are chiefly confined to a few leading shares, most of which are in request at enbanced prices. The recent assessments upon unproductive companies has had the effect to induce many outside holders to close out their investmenta in that class of stock, often at grerious loss. Specnlators in shares, who have been quite generally sorely pressed of late, have also been compelled to part with much of their productive and high priced stocks, to enable them to meet calls for assessments.

With the exception of the more prominent and dividend paying slares, mining stocks are at present unavaliable as a basis for negociating loans. Hence the resort to sales, and the recent activity in stocks, in the face of a very general distrust in that class of investment. This activity has been also due, in no small degree, to the calling in of loans, consequent on the late action of the bankers, which has precipitated upon the market a large quantity of hypothecated

The business of the week has been chiefly confined to the Ophir, Burning Moscow, North American, Baltic and Sheba, with little veriation from prices of previous week.
The Ophir has beeu the chiel feature of the week. A large business has been done in this stock at greatly fluctuating prices; 948 shares have changed hands. 'I'hese shares opened the week at $\$ 1430$, adranced to $\$ 1630$, on the strength of the reported discoveries in the mine, but again weakened and closed at $\$ 1390$ bid with sellers a t $\$ 1400$. Diridends for this mouth have been sold at from $\$ 30$ to $\$ 48$, and for three months to come at as low an average as $\$ 29,50$ per month.
The editor of the Prices Currant of the 12th inst. accounts as follows for the recent extraordioary fluctuations in this stock:-
The fluctuations in the stock of this Company are attributable to a variety of causes: First. It has heen largely hyrothecated. Many of the h lders, availing themselves of its acceptability to capitalists as collateral, had borrowed large sums upon the pledge of it, and to a very great extent these loans had beeu empluyed in the speculative purchase of other
stocks of comparatively little value. T'he downward tendency stocks of comparatively little value. The downward tendency of the barket, and the general unsalebleness of the stock thus purchased. compelled the parties, when pay day came, to realize upon the Uphir as the only resource. Hence free sales became necessary, and the market was precipitated. In additiun to this, it may be stated that a good deal of dissatisfaction las existed with regard to the management of the Companys affiirs. Prominent officers in it have been at variance-its expenses bave been very heavg-an important suit has terminated unfavorably, and under circumstances adapter to increase any odinm that may have before existed against the company. The "Bears" have made the most of all this, adding various embellishments to suit their own purposes.
We have taken some pains to inquire into these matters, and are assured from authentic sources that the mine itself both looks and yields as well as ever, and shows no indications of gising out. The enormous expenses of the last month -some 90,000 -compelled the trustees to reduce the dividend below the usual figure; bur they do not expect a continuance of this, and they aver that the prospects of the mine under proper management are as good as ever. These views are entertained by many parties who sold out with the intention of reinvesting at lower figures, and have dona so, under the impression that the canses at work would force prices to a luw point, and that reformation in the management of the Company's business was all that the case required. The annual election of trustees will take place in a few weeks, and in the mean time the pressure of hypothecated stucks upon the market weing over, and the true conditions of things pretty generally understood, the stock has rallied handsomely without reaching the low point anticipated.
Burning Moscow still continues to be the favorite speculative claim, and has been largely dealt in- $\$ 848$ shares having changed hands at from $\$ 2721 / 2$ @ $\$ 325$. It is stated that this mine now presents a very favorable appearance, and that a large yield of Bullion may be confidently expected,

## ich regularity. in future. The shares of this mine have realy heen harraly increased hy a consulidatiun with the

 udison, Harrisun and La C'rosse Cumpanies.lhe North American has also been quite largely dealt in 169 shares having changed hands at from $\$ 55$ to $\$ 70$. ese shares opened the week at $\$ 555$, advaneed to $\$ 70$ and sed at \$ion. It is repurted that suits have been instituted anst this company for the recovery of a large number of
ares alleged to have been irregularly sold as tho property of inquents, and reissuod to other parties. Aouther assessnt of $\$ 10$ per foot will become delinquent the present ck. The Baltic has also been considerably dealt in at a mate 1 advance. This is the adjoining cluin to the Cncle Sam, 1 its advantage is attributable to symphathy with its neight r. On Wednesday 145 shares were soll fron $\$ 62(1, \$ 00$. Cncle Sam has advanced from $\$ 225$ to $\$ 2 \pi \bar{n}$, but with all sales-sellers shy-und this iu the face of an assessnt of $\$ 50$ per foot, deried ou the 2 d instant. A rich strike reported in this mine, with an abuudance of pay ore in itt.
Gould \& Curry advanced to $\$ 4,800$, and closed at $\$ 4,655$ cidends for this month have been sold at $\$ 130$, and are ely uffered at $\$ 138$ per loot. Many, however, are expectto realise $\$ 150$. Some new buyers are reported in the rket for this stock, and considerable difficulty is expenced in filling orders.
Sheba shares have uttracted considerable attention during week, at fluctuating rates. They opened at $\$ 95$, fell to 0 , but finally recovered and closed at an advance to $\$ 120$ thirty days.
Orerman has been but slightly dealt in, and at a decline m \$700 to $\$ 400$. This decline may be attributed to conned litigation and a contradi tion of the rumored consol tion of this company, the Mary Anu and North Ameri, the three claims to take 2000 feet on a southerly diree" from the Belcher.
Real Del Monte it firm at $\$ 425$ bid, and $\$ 460$ asked. The eepts of bullion from this mine are now very large. The mpany has now 100 men in their employ at the mine. ey reguire the utmost capacity of four mills to crush their ok. The clean up for the week ending Saturday, Oct. 31 lised $\$ 4,000$ from about 490 of ore-equal to $\$ 11.0 \mathrm{pe}$ 1 ! It is asserted by the friends of this company that we all hear of results from this mine, which shall exceed any ing heretofore realised on the Eastern Slope, as soon as it of Decenber. They have already about 500 tous o oice rock reserved for that mill. I'he mine is now well ened out-some 600 teet of galleries having been run. The ening of the mine, and the erection of the mill has been ection of Mr. C. F. Woon, an old Nevadian, of much ex rience in mining. Mr. WV. is about to yield its manage ant to the hauds of another Nevadain, Mr. Wa. Malt
N , also a gentieman of large and most successful expe nce as a mining superintendant.
The Antelope is also quite firm at abont $\$ 150$, in the face an assessment of $\$ 2.5$ levied ' on the 17 th ult. This comny is taking out excellent ore from one of the deepest afts in Esmeralda District.
Wide West is quoted at slight decline, with about the aal business.
silver Hill at $\$ 20$; Ural at $\$ 130$; Utah at $\$ 48$; Bamboo \$30, and Esmeralda \$18.

## VIRGINIA CITY stock List.




RPORT UF BIDS
At the San Francisco Mining Stock Board,

HALES FOR THE WEET ENDING NOV. 14, 1863.

| MUNHAJ. |  |
| :---: | :---: |
| Michigan. | 24 Uphir, 14:0, per foot, 8, 30. |
| 10 Michigat, 8 per nharo. | 12. Ophir, 1440 jer fout, n. 20. |
| 5 Mrehngith, 6 , huy er 3. |  |
| 20. Jurth Americith, of per sh | 9\% ohhir, 1460 per thet, 8.30 |
| 10 Nurtun, 8 pror shate | 12. |
| 65 Jomephina, 88 prer alhare, br 30 |  |
| 0 Wallic. 46 yers ohare | 12 ()h115, $1475,5.30$. |
| 20 Burthag Stomew, $: 90$ pr fuot | 96 (phur, 15.0 pmer font. |
| 10 tad leriade, 50 perer mare. |  |
| $\therefore$ Whle Wear, 70 per shate | $20 \mathrm{k}, 1$ Imata, 50 jur abar |
| 10 Narth Amerscan, 58 jpr wh, br 80 |  |
| 10 Xurth Amperimb, bi bo. be 20 | 2Whtu Wras, 725 5 per stare. |
| 1) Nurth Amuricall, 59, buyer 20. |  |
| 20 North Americms, 60 per alh. | 10 cale lenua Tumask, is prer share |
| 10 Slichigat, 36 per alare | 10 Buruing Sloscow, 300 |
| TUESDAY. |  |
| 10 Bultic | 10 Mount Hape, G. H. 260 per foot |
| 20 Baltice, 50 per share, br 30. | 10 Fent of Uihir thivilends tos |
| 10 bahic, 48 per share. | momiha, fio jeer fint. |
| 1 Thete simm. 300 per share, a. 3. | 7 Wide West, 75 pur sbare |
| 10 L'nele tain, 360, siller 3 vaya. | 25 Mutindit, R, H, 3 pre fuol |
| 10 Nurth a merican, 65 per sh, br 30 | 10 P'aris, Golis Hint, 48 per for |
| 30 Nurth americall 60 per share |  |
| 5 buriside. 8 pere klmureg | 30 Manilligh, II, ,77 50 per ft |
| co Lady Bryun 10 pur miaro | 25 Onciva, finld Hith, $\mathrm{at}^{2}$ per |
| 10 Siferra Nevada, y0 per nhare |  |
| 4 Cinulu st urry , 4650 per fout | 10 Ifmatuel, Fimmenata, 0 |
| 6 limming Mascow 305 pr fiont | 24 Eil horaun, 4250 jer slare |
| 10 Burnilig Mimcow, $\mathbf{1 0} 10$ jrer ft. 8. 30 | 6 (werman, 400 per shmre |
| -0 Bursing Moscow, 3:6 par 1t. b 30 | 5 Userman, tue der share, byr 80 |
| 66 Burniog Minccow, 310 pier foet. | 10 Nusth Americath, 62 pershare. |
| 10 Butuing Mascuw, $3: 0$ per ff , 1,30 | It Ophir, 1650, seller so dayk. |
| 10 Burmue Shatew, : Di 50 per fuot, | :00phir, 1550 per fnot, |
| 36 (y)hir, 1500 per frut, | E4 Ophar, 1640 pur fint, seller 30. |
| 120 Ohir, $15-5$ per fool, buyer 3 d . | 12.0 oplur, 1540 per fout, selter |
| 10 =lutha, 85 per foot, r. w. | 20 Shebib, 95 prer lont. |
| 20 sliebi, 90 per font, 8eller 20 d 4. | 20 Buraing Meseaw, 000 |
| 10 sheba, 95 ver fuot. | 40 Burning Moscow, 305 , |

## $10 \mathrm{Bal} / \mathrm{lic}, 6 \mathrm{ber}$ phare, 5 B:atic, 70 per share

## 5 Baltic, 10 per shure 6 Baltic, 65 per nhare

6 Muchigav, G. H. 34 ner share 6 Sier ria Nevada, 9250 per share
10 - Onith Amurican, 6260 per slare 15 North Ameriam, 64 per slaro
10 North Americun, 68 , br 30 10 North Americun, 68, Lu so
15 Forth Amuricu, 65 per Ahare 15 North Anmericin, 65 per share
6 Unele sim, 375, buyer 50 tlays. 6 Unele sam, 375, buyer 50 days.
10 Uncle $5 a m, 350$, हeller 50 days.
10 Uncle :nm, 375 , ner shar 10 Uncle sam, 350 , neller 50 diays.
10 Uncle simm, 375 per share, hr 30
10 Burnir e Muscow 10 Burnig g Muscow, 29250 per fact. © Burning Brareow, 500 , per fool.

10 Buruing Moscow, 287 , 50
10 Buruing Mowcow, 300 , buyer 80
8 Burnug Moscow, 240 per fot. 8 Burnug Mowcow, 240 per fnot.
10 Burising Bloscow, 288 per foot.
$\qquad$
 io Sheba, 9750 per foul.
2t Uplur, 1550 per fout, 20 Daucy, 100 per foot.

10 El Dorado, 60 per sharo 10 Wide Weit, 70 per thare.
5 Antelore, 150 per soare 6 Sierra Nevada, 90 per share 6 Baltic, 70 per share, buyer 30 36 BudLic, 71, buyer 20
8 Yellow Jacket, 930 pe 65 North Aumericiu. 980 per shart io North America, 70, b 39
10 Noth American, 69, b 30 10 Jnsephine, Cono, 7 , 50 per sharo
10 Niclizan, 40 per shis 10 Sichigan, 40 per share 25 Uaro 25 Union, Russ Ihistrict, 3 per ehare
12 Uucle $=a \mathrm{~m}, 370$ per share, b 30 . 10 Sheha, 110 , ner finot 10 sheba, 105 fer foot.
20 Burning Musenw, 285 per foot.
10 Burniug Moncuw, 10 Eurnivg Moscuw, 280 , ber foot. 80
20 Burning Moscow, 285 or ft $r$ so so Burning Macow, 240
48 Uphir, 1025 per foot 22 Ophir, 1,25 per fout.

## SAY.

5 Bullion, Gold Hill, 4760 ner foot
10 Feot Gphir Divicend
 10 Burning Myrseaw, 200 par pant. -0 Burnidg Moscow, cot per font.
© Burning Moxeow, $3 \times 5$, byr 30 40 Burning Moxenw, $3 \div 5$, bye 20 4 Withe Werst .7250 per sbur
5 Wide West, 70 5 Blue Lellge, 8 per share 5 Mountain View, 17 60, buyor 20 100 Raltic, 82, buyer $: 0$
$: 0 \mathrm{Bultic}, 65$, buyer CO 0 Butic, 65, buyer i0
5 Baltic, 60 per share 5 Baltic, 60 per share
8 Alchigah, 32 fer sh 20 Nurth A wencian, 68 , buyer 80 15 Jorth American, To, luyer $\pm 0$ 20 Hale \& Yor cross, 000 ner fuot
30 Burning Monenw, 285 30 Burnsyg Monenw, 285 per foot
30 :ilseba, 105 per foct 48 Opbir, 1560 prer fuot 12 Ophitr, 1676 , per foot.
12 ()phis, 157 a per fool 12 (phir, 157 , per prote foi, Snturday
12 Ophir, 1600 per font, b 10 12 Ophlir, 1600 , per foot
12. Ophir, 1625 per foot

10 Duekwall Canon, 12 10 Inuck wall Canon, 12
10 Blue Lerlge, 8 por share
50 Open Seanme, 3 , 50 Opels Sagme, 3 pur foot.
5 kil Doradn, 55 per share 5 Fil Dorrado, 50 per share 5 Baltic, 65 per ahare
10 North American, 68 , buyer 30 0 Wide Weat. 70 per stare 3 Madiont, 40 jer share.
1 Yellow Juckel, 925 per foot
6 Burning Moscow, 285 per ft
00 Burnith Moscow, 885, b 3 10 Burning Moscow, 285 pr fonk, 10 Burning Moscaw, 300, br 50 is
4 Burning Mloscow, 28250 pr font 4 Burnug Moscow, 28250 pr font
20 Harniar Moscow, 280 per foot 20 Harniad Moscow, 280 per fort
10 Burnilg Mfocow, 285 per f . r. W
10 Burning Moscow, 285 per ft . b 5 10 Burning Mnscow, 285 per


24 Burning Moscow, 280 ner font. 10 Burning Moscow, 2922/2, byr 30 .
10 Buraing Mliscow, 280 per fi, $\mathbf{r} w$
50 Burnink Moscow, $2771 / 2$ per foot. 8 Challar, $6 \overline{5} 0$ per foot 30 El Dorado, 65 25 Utica (Evmernlda,) 48 per share 20 Chrystal, Gold Hill, 13 per share
10 Madison, R. R., 350 per share. 10 Madisno, R. R., 350 per sher
26 (pen .Sesnme, 3 per foot, 10 blue Ledge, 8\% per share 10 lluckwall, Tuolumbe, Co .18
10 Duck wall, Tuolumue, $\mathrm{C}, \mathrm{IE}$, \& 8 10 Duck wall, Tuolumue, C., 15, s
20 North American, $65, \mathrm{~s} 3$ 20 North American, 65, s 3 , 10 Pari-, Gold Hill, 49 per share. 10 Paris, Gold Hill, bo per share 5 Bultic. 63 ner aliare
10 shelor, 115 per font, byr 80 20 :hemiming per foot
50 Burning Moserw, 275 , selfer 30 , 50 Burning Mosecw, 275, Selfer
L0 Burnus Mocow, 290, br 30.

## DAY

60 Michigan, 45 per share
15 North American. $671 / 2 \mathrm{pr}$ sh, r 5 Noril. American, 65 per shro 2 E1 Doradn, 56 per sh
6 fattic, 61 ner slare 5 . Wappicoll (copper; 72 多, br 30 10 Widu West, 65 , per share
5 Implerial, 800 pet share simperial, 800 pet share, p
so Norton, 8 per shure, lrr 30
30 Utict, Esmeralda, 30 Utiter, Es, meralda, 45
120 phir, 1500 per fout 12 Ophir, 1500 per fout
12 Ophir, 1460 per flot 12 Ophir, 1460 per finat 12 Ophir, 1400 per foot, Relter 30 d . 36 Ophir, 1400 per foot.

30 Shelba 110 per foot
$10:$ :heha, 115 per foot
10 Slicba, $1 \geq 0$ per foot, br 15
10 Sheba, $1: 0$ per foot, br 15
so Burning Muscow, 285 per $\mathrm{ft}, 030$
20 Burning Muscuw, "295 per fl, 030
4 Gonld \& Cirry, 4675 per liot.
10 Fent Ophir lividend for Nov. 48
00 Feet Ophir 1ilidend for Nov. 38
90 Feet Ophir 1linidend for Nov. 38
20 Feet (1, 38 hir Dividend for Nov. 38
20 Feet (1phir Dividend for
5 De Soto 35 per share
50 Onell Sespme, $31 / 2$, b 30
10 Buck 10,19 prr share
10 Buck 1 e, 19 per share
5 Whitio, $S$, . ., 27 per share
5 Whition, $\mathrm{S}, \mathrm{M} ., 27$ per share
15 Lz Providelucia, Copala, $31 / 1$

Greek Fire--Speaking of the Greek fire with which Gee, Gillnore has been experimenting at Charleston, a writer in au Linglish scientific journal expresses the opinion that the substance " might be so formed that it would actually burn under water." What the English writer thinks "might" be done really bas been accomplished at Morris 1-land; several experiments to test the powers of the fire in that way having succeeded admirably. It was also tried under ground. a can filled with it having been placed in a bole dug four feet deep in a saud hill, and then covered up, the earth being soaked with water and batted hard down upon it, On removing the earth, in the course of a minute or two, the substance was found to have barned itself entirely out.
The witer just alluded to states that Scott, the inventor, offered his discovery to the 'British Government during the Crimean war, but was so discouraged and disgusted with the "circumlocution management," which it was ecessary to go through with, that he withdre his offer, and finally placed his invention in the hands of the Federal Government.

Mining Agescr.-By reference to our advertising columns' it will be seen, that we have made nrrangements to obtain specint information, through a resident enrrespondent, with regard to any prrticular mine at Recese River. Parties in the city about to invest in "feet"
 incur the expeuse of visiling the locality, will do well to a vail themselves of the opporturuty hereby presented of securing reliabls
Persons already holding "fent " and desirous to learn through a disinterested source the nctual coudition of the mine is. which they may be intorested, will do well to embrace the enportuni, $\gamma$ here presented of recuring the
desireut informationin.
We shall establisl a the prineipal mining distriets, at an early day.

## Giffards Injectors,

For supplying ollegs with feed water Fitwithout Pumps No Mill or Maning Conmpany should be without oue of these valuable mstrumeats.
Send for a Circular. je22 Cor. Pine and Fiont Sts, Sial Fraucisun.

## Owens River Canal Company. FOR SA䧟,

 presented to the public nis the best investment, for the price, uow offered in this market.
Office of the Company No. 328 Montromerry street.
New Patent Agency. We have connecterd wimh mhis The Patent Agency Businoss;
 upon us, We have an Experienced Agent at Wishing.
ton, which, tugother with our owal experience of several ton, which, togother with our own experience of sover
yonrs, renders the
Mining and Scientific Press Ageney
 Patent on tere Pacialc const. Apply at
Ontee of the " Nining and
stientific
Ontee of the "Mining and scientific Press," Room No. 57 , Government House, corner of Washing thit and
Sansome streots, San Fravcisco.
EWER \& SMITH.

FOREIGN PATENTS OBTAINED By application at this oflico, Room 57 Gorcrumeut House

## NOTLCE TO INVENTORS.

 Ynventors wishing to file Caveats should apply at thiOflce; Room No. 57 , (Fovernment House. Tprms monivOflce; Room No. 57, Government House. Terms monivt
EWER \& SNITH.
ate.

## PATENT RIGHTS.

Patent Rights Bought and Sold, At the oflice of the "Hitining and scientific Preas" A Ageney
EWER SMITB.

TMPORTANT TO INVENTORS. Inventors who notain their Patents through this Office
can have helr Inventions ilustrated and deseribed iu the columns of this paper FrRs of charge, they meroly rurnishing the engravings. We are also prepared to fut
nish engravings at reasozable ratos. Thase who do no caro to go to the expenso of havius, emgrangugs prepare
can have their invontions fully noticed and described in can have their invontions fully noticed and deseribed in
our columns, fice of charge. Tho free use of our our columns, free of charge. The free use of our col-
umas to aid tisema in introducing their inventions ro the public will be found a most important ndraatare to in entors.

## GENERAL NOTIUES

DR, H. AUSTIN,

## DENTIST,

## No. 634 Washington street,

Botween Montgomery and Kearng,


 permancrit sets. All oncran
and at reisonalizo pricies.

## D ESKS

Office Frurniture, OF ALL KINDS...... FOR S WLE BY

## JOHN WIGMORE;

No. 423 California St., San Franaisco. oficce JObBING, of all Kinds, nttended to.

## SQUARZA'S PUNCE.

FIRST PREMIUM
at the sacramento agriclitural state fair ALSO - FOR 1862.
At the San Frauciseo Bay District Agricultoral Fair, 1862 MANTPACTORY, WHOLFALE AXD"ifitait,

No. 44 Leilisdorf street,
Opposite the What Cheer Honse, San Fratcisco.
FREDERICK MANSELL,
MECHANICAL, \& ARCHITECTURAL
DRAUGHTSMAN
No. $\mathbf{4 2 2}$ Californiu street, corner of Leidsdorfif

El Paso District, Ios Angeles County,
MINING AGENCY
C. W. TAPPAN, GENERAL AGENT,
"Head Quarters," Mesquit Springs,
Will attend to any businers connected with those mines
for a reasonable consideration. for a reasunable considerationining Revinue or Postago





## R. W. MYERS, \& CO.

Ohases' New Mill, Fremont Str, near Market,
JOB TURNING \& SCROLL SAWING.
BRACKEIS,
RED WOOD BALUSTERS, NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturers of every description of 0 val, Circular and Square PIOTURE \& LOOKING GIJASS FRAMES For the Trade at New York- Prices:
All kinds of Desimgs for Bnilding.
R. W. MYERS. H. C. SOMES

IIINING LAWS AND FORMS
JUST PUREISHED RY H. H. BAANCROFFT

 Congdon. 12 mo.,
the Boolstores.

## H. C. KIBBE, mintive secretary,

Commissioner for Nevaḍa Territory, 542 Sacramento st., cor. Montgomery (armory hall.)

GENERAL NOTICES.

## HAYNES \& LAWTON,

IMPORTERS AND DEALERS IN
CROCKERY,
GLASS WARE,
FRENCH CHINA,
Coal Oil Lamps, Table Cutlery CI, OCKS, Silver Plated and Britania Ware, etc., ETc., ETc. NO. 516 SANSOME S'LREET [CORNELR OF merchant,]

## WHEELER's Amalgamating and Separating Pans:

 It is acknowledged by all who have exnmined the prin-ciples ant witnesed the mperation of these Pans, that
 mating purposes to uny other in uso.
The most important prisiple convected with the ope-
 process Trom thict cause nft luse it the prectous metals atio-
sams. The
ses from the passing off of the sime in eumbination with the quicksilver, during the proces of trituration, and it
cleaning thp By the introlnction of the Separating pat cleaning ap By the introlnction of the Eeparating Pan
to f thow the trituration this loss is eutirely avoided. working these machines there is wo appreciable loss of
fuicksilver, and heuce nune of the precious metals. Tuicksilver, aud heuce none of the precious metals. Where these Pans have bren introduced and operated
by the side ofotherg on sands from-the same vat, the by the side of others on sands from- the same vat, the
Wheeler Panshave uniformly gained a large porcentage Wheeler Pans have uniformly gained a large percentage
of metals over its comperitors, as well as a still larget purcentage io the amount of work performed.
*** These l'ans man Loseen in daily operation, at the
Mier's Foundry, on First street in thes city, where al nterested ure invited to call and examine for themselve 2016-1f

ZENAS WHEELER.

## Wm, P. TAAFFEE,

importer and jobber of
Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.
Cor. Front and Sucramento strects,

## San Francisco.

## REMOVAL, <br> OFICE OF THE PACIFIC Mretal <br>  <br> huw How Gold Go <br> Goth and ir iver ore, and Sulphuret Assayers', or sil versmithe' sweephiges reduced or purelhased. <br>  <br> NATHANIEL GRAY,

General Furnishing Undertaker,
641 sacramento st., Cor. of Webb,

METALF \& HUTOHINSON'S PHOTOGRAPHIC GALLERY,
650 Wrashington st. Three doors below Kenrny.
Having refitted the above roums the Firm are now prepared to furnikh the public with a superior style of
Picture, at a lower price than ever before offered in the
city. CARD P-CTURES.
every facility for producing theso beauti-
in all their different varieties, we have rc ful pictures, in all
duced tire price to

## \$3. Per Dozen!

Large sized Photograph1s \$3- Extra capies $\$ 1$ each. OID PTCLURES copied with care and accuracy, in any
tyle inssired. Particular attention paid to pictures of sty 10
Clices
Clidrea
Pictur atyle nesired. Particular atention paid to
Childreu.
Pictures painted in Oil or water Colors and iai India Ink by a competeut artest.

## HOTKLS.

## International Hotel,

## ackson Strebt, ........ San Francisco

[A frw doors above Montromiry.]
Most conventen' to the
OPEN ALLi NTGI'T.
Ros City Railroad Cars Pass the Door REDUCTION IN PRICES

## Fiue Bathing Rooms atached to the Barther Shop Warm aud Cold shower Baths Free to Guests.

THOROUGHIS RENOVATED AND NETHRY FURI Mished this spring. Every Room opens to the jight and Air. Ping bed and Hurr maltresses. The Intechatlon-

Best Furnished Family Roons and setis as good a table as any House in the city,
I am determined that the Lixtrixatuosal shatl be the I am determined that the Litrriational shath be the
most comforfable, hist regulateli, and in all respecte auperior to any like entrblisbuntur in the state, aud shath
aimo to merit a contiunance of the popular fivor it has nimo to marit a contiunance of the proular firvor it has
enjoyed heretofore. It will be conducted on Temprance enjoyed her
Priaciples,
'F. E. WEYGANT, Proprietor.

## Tremont House,

## 418 and 430 ..... Jackson Street

THIS FINE, FTRE-PROOF BLILDING ORFIRR MANY - "dvantiges to the travelor for con vensuce, It in only hati a bluck from the Poat omee and Cusinm House,
and abut the saza distance from the principal places of

The City Railroad Cars pass the Door.
The House is conducted on Temperance Principles,
WEICE SECURES TO OUR GUESTS QUIET.
The prices for board and Roms are rery muderateby the dry, racal or wecte. Wk solicir a cain riost all
F. E. WEYGANT, Proprietor.

For the acoommodation of my many gucsts I have ta
 vishing to put un at uither house, may take the Tremont or Intertationul Hotel Coach and be talien to tither Huuse with their baggage, Frege.
F. E. WEYGANT.

## THE RAILROAD H O U S E.

Nos. 46 and 48 Commercial and Clay Sts., SAN FRANCISCO.
Stephen Smith.................... Proprietor.
The above House is a Fire-proof bnilding, with Granito Front, and kept on the Europenn Plan, with hnard and
lodeng by hay or Week to surt the convenience of our lodging by hay or Week to suit the convenience of our patrons.
The Rooms are handsomely ruxnished, upplicd with Patent Spring Beds, and Hut Malfraneery affording very superior accommodations for tamilies or single pervolis.
The Table is supplied with the best the market atords The Rail Road House Cuach fa slways in atteurdance at tho stenmers to convey pascengera and their baggage to the Hollse Free of Charge. The House is open all night.

## P. M. S. C O.

 road with the steamers of the Athantic and pacitio Steamship Company at Aspinwall.

## FOR PANAMA:

The following Steamships will be dispatched in the
month of November, 1868 . month of
Nox. 3d, - - Stcamor Golden Age. Nov. 13th - - - Steamerst. Louls.
Nov, 234 - - - Steamacr Orizaha.
Will leave Folsom Street Wharf, with Passengers and
Tremsure, for Pamama
AT 9 D'CLOCK, A. M., PUNOTUALLY,
ADd connect, Via Panama Railroad, at Aspinwall, with teamshuje for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.
je4
Corner of sacrament and Leidesdorfis sts.

## MININGAND SUIENTIFIC PRESS

FUCNHLAES \& MACHLNE SHOPS. FUUNDRIES \& MACHINE SHOL'S.

REYNOLD
PatentCut-0ff and Governors FUR STEAM ENGINES.
197 at these Invaiuable Madhines, ARE NOW LN USE In Callitoruia aud Sicnular lirribury, kiveug a porlectly Saving 20 to 6 tejur per cent of the Fuel.

## Steen'g Improved Governor



Clark'sSteam and Fire Regulator,
 Ingersoll's Patent Drill Press,
 Folt for Steam Boilers, Pipes, Eto. Steam Engines, Boilers, Pipes, Hydruuhe 'reessea, Slufung, Pulley'x, Etc., at the low Anti Incrustation Powder, A Sure kemedy for scale in steam Roniver, without injuRuter to-sigar fiediery, siul Franciseo,

E. T. S'L'EEN Agent.

MOFNIHAN \& AITKEN
Boiler Makers and Blacksmiths,
Mission, between Beal \& Fremont Sts, Suu Franciseo.
N. B All kinds or Hoilier and Sluct Iron Work exc termas.

## P U M PS!

HARRIsON'S
California Lift and Force Pump, wifhout valves or packivg Sultable for Mmes. Fire Engiue-, Wreckiug or Irrigat and teust liable to gol out of order, of any Pump vented,

## ALL SIZES;

Capable of throwing from ONE HENDRED
THUUSAVD Gallons per Miont-lur sule

> C. TI. Harrison, Phœnix Or Works,
fe. 15 617 Front Street, San Francisco.

60 lbs. MARINE and
Hire-Proof Paint, M Woractured by the pacific metallurgicai IVm Wrorke 13 this city, lor Hulls and liecks of Vessels
 quite equal to Copper, , no worms
cheajer Han any other paiot.

## DIRECTIONS :

For Dechs of Shups, use two parts Mineral Paint, one
part White Leaul, nixwith Liuseer Oil.
 tur aale by allshin Cbandicra and Tradesmen, in boxt
of 50 ltss. eltch, or Jy the Paciic Metallurgieal Works.

## 35 POUNDS FIRE-PROOF PAINT.

When used on Rooff, Buildings, ir Fencer, it is equa Fire 1 reoor, and costiog loss than any pisiut.

DIRECTIONS:
Hodse :-Mix three parts Mineral Paint wlth one part
white lead, thin with Linseed oil: If $a$ lighter color is whinted, mix less paint, morc jcad. If agher color Koof:- live ph ts or sineral Paint, one part white
Leud; mix with Linseel oil. Put it thicls on a tin Roo as one coat when properly applied will inst three years. G. T. C. RRADSHAW, Agt.,
wORIKS, North Bench; Offee, 509 sac ramento st., San Francinco.

HALMER, HANSUOM dE CU.,
GOLDEN GTATE IRON WORKS,
No. 10, Firat bireet, \&an Frwacisco,
Furuish Castings and Muchivery of all kinds

Genuine White Iron Shoes and 1ieso Pah.ante, HaNiscone d co.

## To Quartz Miners.

 Kinox's ImprovedAMALGAMATING PAN,
PALMER'S PATLNV' STEAM CHEST.
 pricens luow khowa.

 wise lust Matu exclu-wn

The public are informed that Letters Patent have heen


Joan P. Gallagher..................Jousfy H. Wesd.
GALLAGHER \& WEED,

## BRASS \& BELL FOUNDERY

I.OCK EACTORY.

No. 125 First Street, opposite alinua, bext dour to Pacific
Brass and Composition Castings and Finishing, done with neatness and dispatch.

Chade torder. Faginee $S$ Gough or ande and hung
in Mie Dest munner. Bank, Vault, Store and Prisoul
Locks, alko bass Padlacks and Shop Locks of various
patteris, nn hand and made fo order.
and Particular nttention given to casting Rudder Bra-
All Jobs promptly attended to.--Prices moderate.
memuved from Orerou street, between Front and Davis.
Re

> Miners' Foundry

## MACHINE WORKS

First St., between Howarid \& Folsom,

FVERy description of iron and brass macht
 patch at the Siluers' Foundry and Alachine Works, as:
Stean Eugines and Bnilers, Flour, caw and Quarta Stcann Eugines and Bnilers, Fhour, Caw and Quarta
mill maachivery, Minurg Pumals, A nualgumaturs, Retorts Particular rattention will be given to the manurfoture
of sfachinery in sectionir, destived for plices of difilicult of suchmery ins sectimin, destined for plices of uinticul tors and Water Wheels-some in uperations and ou exhi*** Partics desiring in test their ores. pruetically, in
amaill quautities will be aflorded amplo facilities, frue of gmall quautities will be aflorded amplo facilities, frce of
cost.
All parties desiring accarate and highly finished draw
ings and Superifr Machinery, at mnist reashotable rate are cordially invited to call before contraeting elsewhere
San Fracikeo, February 23, 186 .

## San Francisco Machine

IRON WORKS!
Northenst conner Fremont and Mission Slreets.
$A^{\text {LL KINDS OF M M }}$ MCt reasonable ter mes. Steam Engines, High nud Iow Pressure © Qurtz


Repairing promply atlended to.
FOR SALE.

FUCNDRIFN \& MACHINE SHOPS

## VULCAN IRON WORKS COMPANY

P. Torguet, Manager,

STEAM ENGINE UUDERS
and
BOLLER MAKERS,
Iron Founders and General Engineers,
No 137 \& $13 y$ Fliw stroet, San Francisco.
Yumping, Hultung, 3imag an uartzecrushiwg

## Muclumesy.

Shoery and miea of the lardert iron
Russia ifon Punched Screelns.
Steanabat Machnery: : Saw, Fiour and sugar Mills. High und Law dienure buicers nfall styles.
Sosish and other Turbiue Water Whecls with laters

## W. T. \& J. GARRATT,

City Brass and Bell Founders
Cor. First \& Market stso, San Francisco.

D. MORRIS, MACHINE SHOP

227 Market, corner of Beale Street. WARRANTED FIRE-PROOF SAFES Mill Work, if nil kinds mate to order. All kincis o
jc 13

## LEWIS COFYEY AND RISDON,

 STEAM BULGER AND SHEET IRON The only exclusively Euike Aluking Establishment on the Pactic cosst Owued aud. conducted by PracticalBoiler Makers. All orders lor Now Werb, the rearin Boiler Mikers, All orders for Now Whrk, the reparring
of Uld Work, executed as ordered, and warrautell us
Old Stand, corner Bush and Market Stroets.

## - EEWIS COFFFY

ГHEODOR KALLENBERG
Maker of Models FOR INVEN'IORS.
M


o. 48 Market street, san Frameiseo

## HIRAM WRIGHT, pick maker,

Has establislied a Manufactury for the Making of MINER'S PICKS,
NO 121 BUSH STREFT, SAN FRANCTSCO,
[Between Sansomo nud Ballery,]
Whare can be hadi a supertor lick fur Dliners use As he inanufncturex nll his picks under his own personal
surpervisinn, he warrants them as being made of the best materiab and by the best work manship.
Orders altended to and filled promptly and wish dia-
putch.

## WRIGHT'S PICKS.

Parker Clameso - We wiul furulibb, nem agplleatiou, the cluan ut any inveuthen that haa beend astenterl withiu the
 should te seat.

Soobing.- luvelitorn will pleane attich to alt model aeht to un, their natiova aud addees, iu a legible, permaneut furm, this will avoil coulusion and provens errors.

Druwisas. - We have blghly tuleuted and eflelent Druughasmint, by whum drawiuge of every uliseriptinms are exceuted in the best higle of art, with promptitude,

## WANTED

By a competent ueraul, Hee secreturyship of fuar Mintig Companines. Brevks to be kept at the office of the Miniug and scivatice Press, No 57 Guverumeut House. uquira as ulove.

SOUTH PARK
Quartz Mill and Reduction Works,
$G$ Gond and silver oink worked at reason.

je13 W. R. WATERE Scerelary,

## W. W. HANSCOM,

Steam and IMeohanioal Engineer,
Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., te.,
as Golden

State Iron Worka,
Eye, Ear and Throat.

## DR. DE CASTRO,

Oulist and Aurist,

 Sultell unh liseases uf these telvente orgitur, with a view Suclets of Lundon apprived)

## Self-adjusting Artificial Tympanum,

For the relsed of deafhers, ateuded by loss or unjury of

 The selt-itljusting Artificial Tympanum was first intro-

 momy to the success or the rennedy and the impurtance of
the in tgithtriververy.
 mumelnie bewht a youltg lady fritht of hin haserved received
 nus-quite like at mitacle. Five more uesumonians from
Mem, ers if the Mericul College, Now York, and Hie principal chtis of Eurine.
Operatiug Roums, LiNION BLOCK, coruer of Markipt and Koaruy streets, Eutrunce on Harket stroet.
Mr. Editor-Hating been afficted with deatuuss fur the last two yeurs, originating iruma mostexcrutiating pains is nay ear, I was oblyed to come down to Sin Franciseo to seek relief. After a ply ysiclan's
recomnendation to wait on Dr. De Castro, no the corner of Kearny and Miarket strvets, and ubslerwent une oporation,
and it is with the utmoadt.ploasure 1 cant say my hearing and it is with the utnont-ploasure 1 chls say my hearing
was sudulenly and withunt. pith eotirdy restored. I deuma it my duty so make this ktowil to the bublic, atid to recomiuend Dr. Ve Casho's skill ne unauriet. JOHN REEEE, Napa Vally.

JOAN WRIGHT, of Sacramento, has established him self in Sun Piranpuec, for tho manufacture of every prises. Prack Eves of the best iron frnialhed in any quan tity, at low rates Orders from the country pramplly
attended to. N. B. None zenuine inmless stamped with attended to. N. B.-N(B) fenuine unless stamped with
my name.
JOHN WRGHT, 511 Afarket hireet.

CALIFORNIA TOOL WORKS !
John Weichhart, All Kinds of Edge Tools, Etc., ane Irons Moulding Irons, No. 22 Fromont street, bet Market and Missio

Jumes Cullaghan, witncss,
[From the Dally Alta.]
ED're Dumy Auta:
Permit me through our widely circulated journal, to ay, that my danghter Jury Ellon. Ius been afficled with
deafness since she wns thirtpen monthe old, and tbat she has beeu a mpmber of the Deal anif Dumb lastitute since
it was nrgntized. (h) taking her to Dr. De Castro, on the it Was nrgatized. On taking her in Dr. De Custro, on the
corner of Kearney and Market sireets, and undergoiug uncorner of Kearney mind sarket itreets, and unhergoiug un-
der his direction, twn operations, she han heard sounds very distuctly; and is now, I am happyy testarte in a fair
way to get permapent relief. The regult, thus far in way loget permapent relier. The result, thus far, is sal-
istactary; and I flecm this notice due to Dr. De Castro for istactary; and I teem this notice due to Dr. De Castro for
his shill, and would recrumment all parties similarly af
flicted togive hima trial My diagliter has at diferent times beell unter the care no the mint skilful physicinns
and anrint in Califurnia, but up to the periud of visiting Dr. De Castro, recoived Lo benefit. CH P. WRIGHT, JOHN
San Fraucisca, Ju y 30th, 1863

## sad Franciseo, June sollı, 1863.

Sun Crancisco, Jaly 14, 1863



GOLDEN AGE G．\＆S．MINING CO， Austin，Reese River． OFFICE， 57 ，Goverment House． WM．POOLER，SEC＇Y

KUSTEE \＆DEETKEN＇S
METALLURGICAL WORKS， for the reduction of SILVER AND GOLD ORES Tailings，Sulphurets，Arseuuirets，Etc．，Etc．，
Practical Assays for Silver and Gold，
n Simall and Large Quautitios，by Smeltiug，Cblorization Wures aud Pus Minipulation．
OEFGE - No． 605 Muntgomery st，Sun Francisou．

## HEPBUIRN \＆PETERSON＇S <br> AMALGAMATOR．


 to lueir
rallfoun

GOLD AND SILVER ORES，
manufinctured and exhibited at the Vultan Iron Works，
Nos 137 and 139 First street，San Francisco．
Nos These machines secure to the miner a more Expenitious and Perfect Reductou aud Amalgatantion，a less liiblili－ effect in propnr tion to the power mployed to keep theme
iu operation thau any otber maclines uow in use lor pro． iu operation that any other maclinues nuw in use for pro．
duciog similar results．This fiect is attested to ly their general alloption and preterecuice at all the pricipith Re－
duction Works in Novada Territory ；amung which mady duction Works in Nevada Territory，amuag which maty
be mentionem the Gould \＆Curry slin，tho silvor state Reduchion Works，Yephary Flit Mill，Hioueer Mill，Euht
orn Slope Mill，Phoeyiy Mill，etce
novs $3 \mathrm{~m} \mathrm{~m}^{*}$


## NEW MIINING AGENCY．

We bave made arkangralents With a spe Which any information nutaiuable with regard to any
particular mine in that locality can be obulued，for the Private Benctit of Partics In this City or elsewhere．Our correnpundent will vixit
auy mine which may be desiguted and report upon tho general characteristics and condition of the ganag．the amunt of wimk whict muy have breh done，etc．A rea
smuable fee will be requit d for such service．For fur－ ther information apply at this office． EWER \＆SMTHEH．
居

MINING NOTICES


 $\frac{\text { San Francisco，Octover } 31 \text { st，} 1563 .}{\text { Pioneen Coso Gold and silver }}$




## スどす。

${ }^{\$ 6}$ ${ }^{2}$

Emmet Copper Mining Compang，－No－


 or to T，IYYNE，superiutundeut，Copperupolis．
By order of the Board of Truscees
octi2．

Ruth Windsor Tamel Company，Es－ merulda di－urict．－Nolico is herchy given that an assess．
mean of fifty cunts per sharo was lovieu on the cupital stock of tho auove compnoy ou the 22st，day of seplum－
ber， 1560 ，pajuble imednaty to the Secreary office in United State gold coill．
By order


## Mining Shares For Sale

## C．A．ORANE，

Offee as Government Block．
475 Sharee U．S．Miniug Company，Virgioia City． Virginia Hill，Virginia City， 168 Shares Evoca Conso pauy，Crescent City，Cal．
20，Shares Mohave Miniug Company，La Paz Distriet，
Colorado，
30 Shares Aspinwall Gold and Silver Mining Corapany，
Dovil＇s Guse District，
75 Shares Washington Copper Mining Gompany，Yadian
Bar．Tuolumue Co．
228 Shares Moutezuma Gold and Silver Miuing Com－ pany，Inyo District，Tulare Co．
90 Shares awen＇County Consolidated Gold and Silver
Mining Company，Ihyo District，Tolare Co
50 Shares Crown Poiut Ravine Gold and Silver Mining
10 Shares Triuufo Gold and silver Minning Company，
sun Autio District，Lower Culfornia．

## Heyer Bros．，

Heyer Bro
and foseral
BUSTON
Heycr Bros．．
406 Battery Stree

## HEXER \＆CO．，

importers of
AERICAN AND EUROPEAN
Fancy Goods，Toys \＆Jusical Instru－ ments；also，




Hailet \＆Davis＇Boston Pianos，
Smith \＆Bros Harmoniums，and
Tha Fallet \＆Davis Pianos are each sulolied with
 oetaves，produciog a quality of tone unequalled in ©rm－
neesp and purity．Our M．ludeons aud Harmoniuma the beat quality，our w．louenns and Harmonfums ar
$\frac{\text { MANING } \because \therefore \cap \cup S .}{\text { OWENS RIVER CANAL COMPANY．}}$
Capital Stock
10,000 Shares \＄100 per Share．
A Portion of this Stock is no offered to
FULL Paid and UNASSESSABLE
DOWNER \＆CO．，the nuthorized Agents of the Compuny
406 Montgomery steet．
President
Secretary
Treasurer
reasurrei．．．．．．．
Supernt udent．．
R．S．WHGGHAX，formerly of Whigham＇s Mill，Nevada


Office of Company 3iz8 Montgomery strett
ARMSTRONG \＆WILDER，
SEARCHERS OF RECORDS
for Alining Claims \＆Real Cstato．
RELIABLE ABSTRAOTS
guaranteed at reasonable prices．
LETTERS OF ENQUIRY
promptly answered．
ALEXANDER STOTT，
M．INING SECRETARY 512 Sansome Street，Sun Francisco．

Secretary of
Hores Shoe，Silver and Copper，Monte Diablo．

T．C．Sanborn \＆Co． STOCK BROKERS，
No．630，Montanmery Street． Gir silver mining stock，
GOULD \＆CURRY MINING STOCK， Chol．Lar mining stock， california stian navigation co＇s stock， BOUGHT \＆SOLD．

## F．MLIER

MILLER \＆COLEY，
Stock Brokers \＆Mining Agents 327 MONTGOMERY STREET，
Betweed California and Pine，in Jerome Rice \＆
Estate Sales Rooms，San Frauci co．
All Kinds of stock and mining Business attended to with Promptness
and Dispatch aug17

## L．F．LELAND，

STOCK BROKER， No． $6 a 1$ Clay street，
Offco Hours， 10 to 11，A．M．；21／2 to 31／2，P．M．
Member of the San Francieca Stock and Exchaugo Board

## AGENCY

MEXICAN MINING STOCKS

California．
All porsons are invited to call and exumine Ores from
the above miues．
jel3 ；Wm．FAUI．Kjer，

## New Bedford Copper Company．

 ular Aupplies of their superior manuiuctures of

Sheathing Corper；
Brazier＇s Copper；
Copper Bolts；
Yellow Sueateing Metal；
Coppler and Composition Natls；
Which they offor to the Traile at the lowest market
rute，and on the mois favornlle terms ，sToNE \＆ Ca

BUSINESS CARDS
A．C．MORSE，
Mining and Real Estate Agent，
H aving mane arkangemmints Stock Brokers of San Francisco．I ump prepared to BUY

Fire Hose！Fire Hose！！Fire Hose！！！
J．P．D．WILKINS，

 square iuch；us certifeu by he Chief Eugincer．

ALSO FOR SALE，
All kinds of Hakness god Sabdlery，at the loweat eaqh Halu street Stuble．

## WANTED，

$G^{40}$
CUTTING JEWELRY，
by frontier a．devieicy，
aust $\quad 487$ Pine etreet，San Franciser，

## THE EUROPEAN

 ORE REFININGCOMPANY
Quartz Mill and Furnaces，Bryant Street， Crossing Thirel，San Franciseo． RECEIVE ALL KINDS OF

## ORES AND MINERALS

## Lates euriopean methods，

## CAREFUL ANALYSIS，

## The Pacific Mineral Compnay

 Lead，Silver，Tin，Nickel，Cobalt，Zing， Lead，and Sulphurets containing Goid． Withe silver and Copper Ores，and advances made thero－ Parties nwning undevelopled mines and desiriug capital to prospect the same will recuive assistance，if，upon ex－
amination，such leads are deemod suffejeatly valuble monination，such leads are e

OFFICE，No．1，ODD FELLOWS HAEL，
je1－tf Muntgomery Street，SLn Fran
MARTIN \＆Co．，
OFFICE－－－224 Montgomery Streot，Up Staira
will contract for the

## Purchase of Copper Ores，

Assaning 8 per cent and upwards of Copper th the Ton．
We will make ADVANCES upon Ores of COPPER，TIN
Sucls willive furblehef anil Freights Peld ob all con－
Henry Martin，
J．F．Greenman
New York．
San Fracisco Post Offic3，Box 1259．
je 1.

## NORTH BEACH QUARTZ MILL

## and

## REDUCIION WORKS

Are preparelt t
Working asseys made of an
ores crushed at short nolice．
Our new and complete Nachils，
ive results fully up to the merits of rack enable un to
WHEEJER \＆THAYER，Proprietors．
$\operatorname{san}$ Francisco，Oct．13， 1883 ．

A PATENT BLASTING LOCK
In our last issue we made some notice of o receutly inveuted machines for rock drilg. 'To day we present the acrompanying astration of a very useful and ingenious litpiece of mechanism which may prove a pat useful and appropriate accompanyment a rock drilling machine, and which, in fact ould be employed in all cases where any asiderable amount of blasting is required. is instrument is known as "Hughes' BlastLock," and sold by Messrs. Haghes \& ch, at No. 408 Commercial street, in this y In order that its utility may be underd, we give the following descriptiou of mode of using it. which will be clearly unstuod by carfully reading the same in connection with the istration.
First cock the instrument by pulling the brass knob repre ited upon the extreme right of the illustration; then put fater-proof cap on the nipple seen in the opening of the ander; next cut off the fuse one inch above the surface of ruck in which the blast has been put, and insert the lock the projecting fuse so that it will enter the muzzle as far possible; then raise the lower lever till it stands at a rightle with the cylender. When ready for use the upper lever ch acts as the trigger must always be down on the cyleuCare should be taken that the chain/connecting the levers, is not kinked or tangled; if it is so, when you I the cord it will pull the machine loose before the cap sts. If used in a shaft, the upper end should alw.lys be at the top, when all is ready, ascend the shaft, or rere to a place of security in the mine and pull the cord. $\$$ machine will at the same instant disengage itself from fuse, to which it had previously been fastened by the er lever, and should be promptly pulled out of the shaft sway from the vicinity of the blast. The lock should lays be kept well oiled and the muzzle cleaned like the rel of a pistol. A single blast or a series of blasts may hats set off at the same instant.
The advantages of this machine are immunity from danger, eat saving of fuse and time, and a greater certainty of harge from the employment of a shorter fuse. The lock ly if ever fails in its duty. In sinking shafts, where blastis required, the adrantage is very important, as will readthe perceived. The machine weighs put a few ounces, and be readily forwarded by express or mail wherever it be desired.

Live Copper Spectmen.-A very fine Specimen of Copper From the Eureka Coinpany, Nevada connty, may be seen il:ont of the Express Building, on Montgomery street. The. ) simen weighes 226 t bs, and was taken from a shaft at the lith of seventy feet, only.

Aper vs. Gold.-There are 88 banks in Rhode Island, a capital of $\$ 21,000,000$, on a specie basis of a trifle half a millioa.

IItahes' Blasting Lock.


## LETTER FROM REESE RIVER.

## Austin, N. T., Nov. 8th., 1863.

Edtror Mining \& Screntific Press:-The Virginia City Enterprise, of the 5 th inst., gives currency to some ridiculous street rumors, which are calculated and probably intended to deter capitalits from investing in the Reese River mines, and which doubtless originated from jealousy of a growing rival. These rumors are to the effect that loads of silver ore from the Gould \& Curry are being shipped to Reese River for the purpose of "salting" worthless claims, and that a large amount of bullion has been purchased at Gold Fill, brought out here and run into bars, and palmed off as the product of these mines. The first of these rumors, the Enterprise thinks, is "absurd," for the reason that the ore from the two regions is as much unlike as coal is from chalk, and no man here could be deceived. The Editor, had be been disposed, might have given several much better reasons for discrediting the story. Without doubt there are many worthless claims in the Reese River District, which the owners would be glad to sell; but were they disposed to. "salt" them, they could get plenty of grood ore for the purpose in their own neighborhood, without going to the expense and trouble of purchasing it in Virginia and paying ten or fifteen cents a pound freight to Austin. The other rumor, the Virginia paper thinks, is more plausible, but viewed in a proper light it is equally as absurd as the first. Our mills, it is true, are not turning out as much bullion at the present time as had been auticpated by those well acquainted with the richness of our mines, but the article can be readily purchased here at a discount of five and six per cente, and a man would be a simpleton to send to Gold Hill for it, where he would have to pay nearly its assayed value.

A reader of the Virginia City papers cannot fail to have noticed that they never omit an opportunity to make a fling at the Reese River mines, while the mines of Humboldt and Esmeralda, rhen referred to at all, are spoken of in the most respectful terms. The reason is they bave well grounded fears that their far-famed Comstock will soon be eclipsed by the rich silver veins of Reese River, while they have no fears of rivalry, from Humboldt and Esmeralda.
Of the several thousand ledges, located within five or six
miles of Austin. it would be ton much to expect that all would pay for working, hat if one in a hundred pays, Repse River must shurtly become the must impurtant silver-produeing conntry the worlul has ever kinwa. Hurking tests lave been made of ruck from over a h.adred ledges, and the yidhls liuse certainly exceeded what could have reasunably been expected. Uur mill men lack the experience of properly tre ating the ores, and the mills are not supplied with the requisite machinery for saving the silver, yet with these drawbacks, scacely an instance has occured in which the yield was less than a hundred dollars a ton, and the average yield will brobably exceed two hundred. This is mach greater, as I am assured by those who know, than the average yield of the Comstock mine. Our mones, it is true, are mostly small, and none of them will compare with the Comstock for size: but there is one adrantage of small mines which should not be overlooked-that is, the saring the expense of timber. A ledge of one or two feet in thickiess can be safely worked with very little timbering; but to work a ledge the size of the Comstock, in à country like this, where wood is not plenty, the expense of timbering would be enormous.
Having resided here for several months, and carefully examined several hundred mines in this vicinity, and laving; withal, had considerable experience in quartz mining, I have no hesitation in predicting, that in one year from now the bullion shipments from Reese River will exceed the present shipments from Virginia, City; and I shall be much disappointed if Austin is not, in less than three years, the second city on the Pacitic slope.
T. H. R.

Tue Unron Gold Mining Company of Klamath Co.. have recently got their mill into very successful uperation. They are runuing eight stampe with steam power and crushing about 12 tons per day. Their arerage "clean up' " is about $\$ 300$ per day, or $\$ 25$ per ton-a rery good business.
We have received several very rich specimens of ore from the "Illinois" and "Golden Age" mines, Reese River. The 1llinois has a shaft thirty feet deep, with a vein fire feet wide. The Golden Age has a shaft down 35 feet with a three foot vein, well developed, and regularly increasing with the depth. These companies have determined to prosecute the work of developmeit during the winter months. Bath have quite an amount of good ore already out, and each bid fair to soon take a high rank among the rich mines of Reese River. The idea that once obtained credit that the Reese Ruver reins were too small to work, or were not to be depended upon in depth, is now pretty well exploded.
Among the recent scientific agricultural suggestions is one for improving chalky soils by using sulphate of iron as a ma* nure. It is stated that just as a preparation of iron is psescribed to the human subject when the blood is poor, so poor and barren soils nay be greatly improved by sulphate of
iron. and

## [Froum our Traveliug Correspondent.] <br> CAMPO SECO.

Mr. Ediror:-When I started upon my present route of inspection, commencing from the Keystove claim in Copperopolis, up the Salt Spring Valley north to Campo Seco I thought I could axcomplish the whole in three days, and include the result in one letter. I find myself mistaken in both calculations. The mines in this section are so numerous, and far apart, that for the present, I must omit those in the valley and confine myself to those around Campo Seco. By this arrangement I shall save time, and avoid confusion.

It will be unnecessary to say much about the town, as people generally, I presume, are familiar with it. Before the "copper age," Campo Seco, like many other small towns in the interior, which flourished under the "golden age," was falling rapidly into insignificance: During the three years elapsing since I was here, I observe several striking and gratifying improvements. The town looks cosy, and well-to-do; the people are orderly and of a most respectable class. The two hotels, the Hooker and Phoenix, are well kept and and comfortable; while the stores, and the appearance of things in general, indicate a new spirit, and that Campo Seco under King Copper, is destined to become quite a place.

And well it may-for the mines so far as developed, are of first-class character. At San Prancisco you have no idea of the advanced condition they are in, buth as regards the developement of the lodes under ground, and the excellence of the works above ground. Their position, however, being over fou $\iota \bullet$ miles apart, east and west of the town, requires a few preliminary remarks, to make it comprehensible to people at a distance.
Since I reported upon the Gopher District, I have given the country in all directions a more close and thorough examination, and I find each of the three systems already described, contain at least four distiuct and seperate veins. This fact, though it may sound strange to many, is never-the-less very obvious in the Copperopolis Falley, at the Collyer and Plymoth Rock claims; it is equally so at the Massachusetts Hill, three miles wast, and I am satisfied it is the same at Gopher. I had adopted this opinion before I reached Campo Seco; and, here I find the three systems, in character, position, and distance apurt, exhibiting themselves precisely the same as they did 20 miles south. If geology in certain respects, "is never at fault," there is no other way than this, of explaining the difficulty and contradiction at once apparent to the investigating mind, if an opinion is to be formed of the probability of general success by the location of each shaft. Many intelligent gentlemen, to whom this contradiction has long been apparent, as it was to myself from the commencement, now admit my theory has the strongest claims to consideration, inasmuch as it ultimately ensures success to all the prospecting going on, which otnerwise would be a matter of very doubtful propriety.

I think as far as Campo Seco is concerned, the linear course of each system may be thus safely located. The Copperopolis lodes, strikes the Comeh claim in the valley, go to the Forty nine and Liberty claims, and thence to the John Bull district on the Mokelumne river east of north three miles above the town; the Massachusetts Bill lodes, west of north, one mile and a half below the town-while the Gopher lodes range somewhere about Poverty Bar, and Lancha Plana to Tone City, where I am satisfied they can be struck in the neighborhood of the cemetary. The advantages of this theory, in three respects, are immense; it certainly proves these copper deposits to be one of the greatest wouders in world; it suggests more safe and paying investment for the redundant capital of the State, than all the far off Reese Rivers and Devil's Gates put together: and, if syatematically observed, will save the companies, different lodes north and south of Copperopolis, an untold amount of money, labor and time. It is an old axiom, that whenever science gives certainty to labor, it is in that proportion valuable and authortative. If I am correct in my theory, than the labor going on around Campo Seco, iavolving thousands of dollars, must be successful; if not. the greater portion or it is a foolish. desperate speculation, conceived in temerity, pursued in temerity, which will bankrupt eventually two-thirds of those interested. I take it for,granted, all who understand mining will admit at once, that to comprehend distinctly the system you seek to develope, its locality and linear course, is an immense advantage; because, that knowledge discloses the two
great secrets of successful mining-viz, where to commence, and what to do. Such I hold is the advautage this theory confers; and applying it to the Campo Seco'm nes, it points only to two undeveloped claims, which in the end will prove failures.

After this explanation, it will no longer seem strange to our readers not thoroughly posted in the mysteries of mining, how a variety of claims, running in parellel tives, four or five miles apart, can all be successful, or expect to be so in the end. I shall now introduce you to the Campo Seco mines, no less important or numerous than those already described. It will be most convenient to commence with those lying west one mile and a half below the town. First, on the banks of the Mokelumue river is the

Copper Hill.
This mine, at present, is one of the two most important in the neighborhoud. It. is incorporated, containing 3,200 feet, divided into 3,200 shares. The main shaft is 280 feet deep with four shafts. A large quantity of valuable ore has been shipped from this mine, though the yield is not so great just now, simply because the black ore is changing into the yellow sulphurets. In fact I got a piece of rock off the bottom, which it was impossible to tell from the Massachusetts, on which system I locate the se mines. If this lead opens here, as it has at Copperopolis, of which I have no doubt, high as Copper Hill stands, in will more than double its value: All the work at this mine are excellent. A large water-power wheel forty feet in diameter is being put up, which will be a great improvement. Fifteen hands are employed day and night. No stock in the market. A short distance south on the same lead comes the

## CAMPO SECO.

This mine is the compeer of Copper Hill. It contains 2,600 feet, divided inte 200 shares. The main shaft is 100 feet deep, six feet in the clear, exceedingly well put together, from which a drift runs east 70 feet, Out of this I took the beautiful specimen of blue ore I send for your cabinet; the other, (black) perbaps richer, comes from the bottom of the shaft, where like the Copper Hill, the vein I think, is giving way to the main lode of yellow sulphurets. This mine has also yielded a very large quantity of these rich colored ores, and will continue to yield them in large quantities for years to come. The drift is a splendid piece of work, and does the Superintendent much credit. The mine is worked by waterpower, the wheel being 40 feet in diameter. All the upper works are very complete and efficient. The sorting-shed is sixty by thirty feet, from which a track 410 feet long runs to the shaft. The only thing wanting is a pump, and that they are preparing to put down. It is much needed below. A number of hands are also enployed here night and day. The Campo Seco stock ranks high, and deservedly so, for it fully merits its reputation. It will take another year, however, to derelop its real value. Next in succession, but on another rein comes the

## lone star.

This claim contains 1,500 feet, divided into 1,500 shares, being incorporated. The main shaft is 95 feet, but, at present, the lead though very large, is equally corrupt, bearing antimony, iron, and arseniates, as well as copper. Still the indications are flattering. The prevailing error of sinking the shaft too far west has been committed here, and, they have consequently to run a long drift through very hard rock to cut the vien, and then the old tale, a new shaft. will be needed. Nevertheless, the mine ultimately must be valuable. On the Lone Star, as throughout all this section, the croppings are spleadid. On the other aide of a small creek, and directly opposite, is the

## lancha plana.

This claim is incorporated, and contains 3,200 feet, divided into 3,200 shrs. Main shaft 164 feet, from which runs a short duift to the west. The Lancha Plana enjoys a very high local reputation. I could not go to the bottom of the shaft, as the men were timbering, so I did not see the vien, which I understand is very fine and large. I regret this as I was anxious to see what resemblance it bore in formation and character to the Massachusetts. The Lancha Plana bas yielded large quantities of first class ore. At present the Company are preparing to put up an engine of twenty horse power, which when completed is expected to develope great things a few minates walk south from the Lancha Plana brought me to the
higbee.
This claim has 2,400 feet, divided into 2,400 shares.

Main shaft 65 deep. The Higbee is not on the same lead; the Lancha. Plana and Lone-Star, but that of the Camy Seco and Copper Hill. Work is suspended here for a tirr to erect machinery for hoisting, and as the shaft was full water, I could not, of course go down. Undereloped, hor ever, as the mine is, the stuck bas a local value quite $r$, spectable. I understand the lead opens very handsomel strong sulphurets following the talc down all the way. Ner, the Higbee on the same vein is the

## Hawes \& co.

This claim contains 1,200 feet, divided into six share Main shaft 85 feet. Like the Higbee, this vein opens vel handsomely, carrying all the elements and indications of large strong lode. All it needs is depth. Work going $c$ steadily. Last on this side of the town, that I cruld hear of meriting notice is the
omaha,
This claim contains 1,400 feet, divided into 1,400 share Main shaft 75 feet. Work is suspended bere, for the presed to prepare machinery for hoisting. Wheu resumed, tl company intend running a drift to the west. The ledge ro is very strongly dev, loped and very promising.
I must now return to the town, ana proceed some thr miles in an opposite direction to John Bull district. T mines in this section are unquestionably on the "Uniu lead," and with one exception, are all exceedingly promisinf The country is hilly, barren, torn up, rough, bearing a strol mineral aspect. The lodes here on the surface are well d veloped. I shall commence at the river. Immediately the banks is the

This claim contains 1,400 feet, divided into seven share Main shaft sixty feet, somewhat small, bat very well til bered. The vein shows itself beautifully. I think the copp will be struck first in this mine, owning to its favorable lor tion. Next in rotation, is the original claim of the distris the EUREKA.
It contains 2,000 fect, divided into ten shares-incort rated. Main shaft, 140 feet. At the bottom, the vein rapidly concentrating, with a very handsome hanging wi The work in this shaft is well done, and neat througho The acconmodations are good. There are about forty to of No. 2 one on hand, which will be largely increased befc Spring. The Eureka is a fine institution and well conduct Next comes the
bay state.
This claims contains 3,200 feet, divided into 3,200 shan Main shaft 84 feet, with the vein opening on the botto Like the Eureka, the work here reflects credit on the Sup intendent, only the ladder is too long in the steps for a m with short legs. According to appearances at prese twenty or thirty feet more, ought to strike good ore. T rack is vary pure all the way down. Accommodations go Since writing the above, magnificent ore has been struck this claim.

BUNKER HILL.
In my opinion, this shaft is altogether wrong in its locati and shows few or no indications of a vein. The drift at bottom running east is still worse. They should prospl the opposite hill to the west. Behind this claim a short ( tance east, comes the

WINFIELD SCOTT.
This claim contains 6,400 feet, divided into thirty 1 shares. Main shaft is down thirty feet, just commenced a splendid opening, and a strongly developed lead.

## sebastopol.

It contains 4,000 feet, divided into twenty'shares. shaft thirty feet, a counterpart of the Winfeld Scott, equally favorable prcspects of success.
spring ranci.
It contains 6,200 feet, divided into thirty-one shares. shaft fifty feet, carrying from the start a well defined lt It has now a splendid hanging wall, and may certainly be c sidered an established fact. Some 300 feet from this cist lies the
morning star.
It contains 6,000 feet, divided into thirty shares. J ommenced under equally favorable auspices. Last in section comes the
mount fernon. It contains 3,000 feet, divided into 3,000 shares. M
haft fifty-three feat, in which they have struck a small
found are. Wrork being suspended for a Se. I didnent galselow.
Surh are the claims around Campo Saco. sim very favorably impressed with their chareter. 'I'ukno generally they are arore advaned. and lonk better than in any other section have hetherto been. When the sixtern mines get into full operation, what a change hey will produce. I have been very cordially eceived here by all classes. To Mr. Brown
of Copper Hill, Mr. Spencer of the Cimpo keco, Mr. Ralduin of the Eureka, Mr sparkes of the Bay State, Mr. Higbee, Mr fawes, and Mr. ('oleman. I berg to acknowl. dge my otlimations prisonally: They have loo liberally patronized the Press. Must artily do I wish them lung lives to enjoy ruits of the success before them. L. H.
G. E. MOORE, Assayer and Analytical Chemist,





## ASSAYS!

romptness and Accuracy Secured By the Use of the Most Improved Methods of
A NALYSIS!
Idvantageous Terms for Prospector's Clubs and Mining Companies.

## 1. H. CHURCHILL, M. A., (Froм Ecrore,



RIERN, HEMME \& OO.,
ASSAYERS.
ffice, Montgomery street, cor, of California
Assays Made of ores, Minerals and Metals.
Reftrren wfti permiseron to

| F. PARROT \& CO. | Mas.rs AISOP \& CO. |
| :---: | :--- | :--- | P,

 apey ing, aso in Muarralogy and Chemistry as arar as re
ared to become a practicil Assayer.

## AGENTS WANTED.

 and


## MEAD \& UAN TASSEL,

 HATTERS,Hont gomety st., cor. or commerefal,
OO OUR FRIENNS AND THE PUBLIC GENERALLY Having Purclisased the entiro inter est of Mressr
wher $\&$ Co., in thic city, we shanil, on tho 1 st duy HA T EMPORICM,
ay assume the managemet of the
HATM,
ng conducted by that firm.
 nuance uf the patronase so long and liberrally bestoved min the oil $A$ House, fueling entire confidence in our abul-
yo auit tu every particul 1. . Mr. THEODORE VAN TASELL, for eight yeats mith
ersha Le Gry \& Cn. woild be pleased to see his frtends

 1ving perfected arrangements, we diall be in constant French and American Manafacture. Oor Sluck anow hn hand iz superbl.
Call and examine, nnd judge of tho merits of our claim
tha titlo of LEADERS of YASHION."
nespeatury
MEAD \& VAN TASSELL.
Moutgomery atreet, cor. Commercial

## THE

BRYAN BATTERY

The rast intermat involyrd in the reduction of ofen on

 Stamp Battery

## ALONE STANDING TUE TEST.

Thide with the imprncements when Fxperiquen has
surpested is now rekurded, by common consent, as the

## METHOD OF CRUSHING ORE.

Tпи hivan B.tтers, ns now conatructed, is telieved of the nast hats alforded. They bave been

## EXCLUSIVELY ADOPTED

by many of the mate prominent Xining Companica in the cuntry, nid havi" been, for the thres past yeara, sub-
jerted to the mont severo if ail tests-that of coustant use-and in every case hare been pronounced
Effective, Substantial and Reliable.
They arn anw extensively used throughont the
 bave st thislie.l $n$ elium to pull) ic confiutence, nerer yet
equalled lu any niece of miulng machinery.
These Milla are constructed almost entirely uf Yron,
 and drynes of a tmouphere,
tied. They are ud.tpted to

BOTH WET AND DRY ORUSHING,
And are wnrrantod to reduce, with the same weight of
Stampu, 25 par cent, more rock thau any outher mill in
Atara 25 nor cent, more rock thau any other mill in
Stame. Eich Buttery is complete iv itseef, and forms a
und perfect mull-while ang number of them can be added
at a subueqpot timn-ilus preserving the symetry and an a formenty of tho Mill

Asan ovidonce of the increanging favor with which Ahan ayinence of the increasing favor with which C.lehralnil Ophinir Crmpany firyt introduced them into
therr works in 1800 , aud hava been adduag a number of Bitteries, cach sulsequent year, until they now have Nineteen, running Siventy-six Stamps,

They are perfectly fitted and het upat our Works, be on that they can be put up nad smat at work in ton hours Ces foursirg nit hive stampis cach. The Fnur Stamp
 chat in setionn, when dipsirided, that the mills can be
macked over auy mountun road.

We annex the names of few well known Companiea Who have nilnpted them-running from frur to
ave stamps each-to whom refereace is made

Ophir Mining Co., Washoe Valley,
San Marcial Co., Mexico,
Johu D. Winters \& Co. Esmeralda
Crown Point Co., (rold Fill,
Potosi Mining Co., Virginia City,
Tajo Mining Cu.' Mexico,
Sheba Mining Co., Humboltd.
Lotta Mills Co., Coso.
American \& Mexican Co., Mexico,
San Carlos Mining Co.,, Owen's River,
Enion Quartz Co., Aurora,
Triunfo Mining Co., Mexico,
Napa. Quatz Co., Aurora,
Petaluma Quartz Co., Gold Eill,
Francis Mellus \& Co., Slate Range,
W. R. Churchill \& Co., Mexico,

Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat,
F. A. Benjamin \& Co.. Mexico.
O. J. Parker \& Co., Nicaraqua,

Gibhons \& Clayton, Esmeralda,
Smith \& Clouser, S. F. Reduction Works.
Amagoza Mining Co., San Bernardino,

## MANUFACTURED ONLY BY

GODDARD \& CO., At the Pacific Iron Works. SAN FRANCISCO.
os 125 to 136 First street, and 126 to 144

IIINING \& SCIENTIFIC PRESS.
THE ONGYMINGG, MECMANTCAL, AND SCIENTHEMC PABER ON THIS CONTIAENAS.
THIRD YEAR: FOLCME VI.-NEW SERIE:



 published The Inventor I
Will fiod it au excellent melitum for the parpose


 with climpatcle.

The Mechanic and Manufacturer ! Will be greatly benefitted by its perusil, us ith an
umus will Iroin lime to time contan orizinal cultrav
 lays of mew marliness and haventions, together with
large nmount of readling mater appurtanmak theret

to exiract whatover may bo of beucfit or intorcst our readers.

The Mining Interest !
Will ind it of groat value, ns it with contain all the nows alper kinumy thining, the prises and sales of M1
ning Stocks, new inventionk of Jachinery aulap ed to tion purpose, and of overy thing gencrally that may be of sor-
vico to the Miner.
To Chemists, Architects and Millwrights.
This journal Will bo in ralunble. All new discoveries
in Chemistry will be given, anil a arge amount of infor in Chemistry will be given, and a large amount of infor
mation of great service to drcliterts and Millwrights mation of great service to drchitects and Millwrights
will bo found fo nur columns. The Farmera and lilan ters will uol be negleeted, cograwings will be given erally will beamply discused.

Terms.
To mall subseribers:-Four Nollars per annuma Club Rates.
FIve Copies for Six Months, 88 .
Ten Copies for Six Months, $\mathbf{\$ 1 6}$.
Ten Copies for Six Monthr, $\$ 16$,
Ten Copies for Twelve Mouthr, $\$ 30$
Names can be sent in at difirerent times and from gratis to any part of the country.

EWER \& SMITH, Pablishers,
Room 57, Guvernment House, Corner of Washingte

## I. C. E. KLEPZIG \& CO;

GUN MAKERS,
DEALERS IN GUN MATERLALS,
733 Washington strect, San Francisco
[Ono Door above Kearney strect.]
Repairing done in a workmanlike manner at the shor Gildiug, avd also Silver Plating, by E. Ekland. je2t

## LEANDER RANSOM, Civil Engineer AND

SURVEYOR,
Having been connected with the public work of the State of Ohio for 20 years, and the publi surveys of the State of California for 7 years.

## ALSO

STATE LOCATING AGENT.
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cush and the balance on 8 credit of several years.
OFFICE, 328 Muntgomery stroots.

## D. NORCROSS,

Masouic remple, No. 6, Post Strect.
Military Goods of all Descriptions.
Navy Trimmings and Embroideries.
RHGALIA FOR ALL ORDERS.

## PKOPLK's

OPPOSITION
Steamship Line!
 GRHAT REDUCTIUN IN RATES!!!

## The Fast and Favorito Double Engine Steumxhip,

MOSES TAYTOR, . H. Jhemthen............... Commander

Will be dispatdh for PANAMA
From Mission street Wharf.
ERIDAY, - - NOVEMBER 13, 186 runctually at 9 o'clock, $^{\text {d. N. N2, on }}$ ILlendidStes malip
ILLINOSS ......... 9500 Tont. ILLINOES

2500 Tone.
The Mnses Thytor, Hibce ber 1 st trip has un'ergove
 na ted thrsuglomit-making ber ucuadations and any stramer on the crean
For further information or Passuge, apply to
I. F. Bonelith, Agent,
o. 407 Wasbington Streut, Enn Francincon. $\begin{gathered}\text { Opposito the Post afice. }\end{gathered}$

BOOK KEEPING, Penmanship
OOMMERCIAL CALOULATIONS, Taught by J. S. LUTY
PRACTICAL AOCOUNTANT,
305 Montgomery Strect, Corner or Pine.

## TO QUARTZ MLINERS.

A phersons interested in Mining Ma
exa
exime ably superior to meve huzalga matown for amatumben ably superior to nyy homg now known for amalgamating will amalgamate over three tous a day. By the motion
of the recolving anuller, the pula is drawa throuch its of the revolving muller, the pulp is drawa thrsugh its
centreand passes unifer it, betwcen the griming surcentre and passes unfer it, between the griming sur-
facen, to the circumferenco: from whence ii passes again facen, to the circumferenco: fres through the holes and between the grinding surbice to the circumierence as bofore. Thus a constan of ore again and again untier the miller, and reducing the whole mass to an impalpable mowder.
Noquicksilver lies between the surfaces to be grouad, but at the circumference and centre of th pan where the betal must pass through it as the pulp circulatoo. A natent was granted for this Amalgamator in December last, and all persons are afaia warwer agaiost
purchasine machints made at tha Miners' Foundry purchasing machines made at thr Miners' Foundry called
-. Wheder's Amalgamator," as they are an infringemen on my patent, and a suit is now meuding In the U, S, Gir
cuit Court against the parties infriuging. My Amalga cuit Court against the partien infringing. My Amalga-
unators can be seeu ruvning at Dunahua's Foundry, whero all cin judge of their operation and the very supertor style ${ }^{1}$ n which they are being manufacturel.
Eep 21

## PATRONIZE honie manufacturies!!!

James Longshore,
Trunk and Valise Manufacturer, 307 Sansome Srect, under Tohama House. Trunkn and
Valises, Whulesale and Retail, Fine Sule Leather Trunks, Thises, and a fino assortment of LADILs TRU. stuntly ou hand. Trunks covered and repaired.

## APARTMENTS,

FURNLHED APARTMETNS, WITH, OR WITFOUT
Boart, at 1018 Powellsirect, betweeu Clay aud
Washingtou street. Pervods deairous of a respectal)
FOR SALE.
Patent pressed russia iron aming pans, Russia Iron Quartz Scrocns for Mills; Portnible Forges ; Cauldron Kettles ;
pumps both Frume and Lift ; Lend Pipe ; Rubber Hose; Wrought Irou Pipe; Bibh Cucks : Couplings ; Play Pipe Coaking Stoves and Hea 'ing Stoves Fruit Cans of Varinus Butter Cans of all Sizes Lrou Wire; Brass Wire; Copper Wire
Copper Rivets and Burrs; IroaRivets; Etc.
We are also manufacturers of tho

## UNEQUALLED

MONITOR COOKING STOVE Or RANGE.

For Hotels.
To which we call purticular attention j0-20

Mining Notabilia-Extracts from Correspondence, etc.
the romitiork lfad.
From Tirginia City and vieinity, we continue to hear most favorable acconnts. The Ophir is still taking rery rich ore from the spur or lead dereloped by the recent "cave."
The Central, No. I, are down 400 feet, perpendicular, where they have a fine lead developed. The California, next adjoining on the south, are down about 300 feet, where they have a fine vien of ore. The Compuny have recently put up a very fine house npon their mine, with all necessary convenieuces for actual operations.
The Ceatral No. 2, are still driving ahead their branch from the main Latrobe Tumel, which is to strike and develope their ground to the depth of nearly 500 feet. They bave now a little wer 100 feet to run, through very tarorable ground. Much anxiety is felt by all Comstock owners, in this vicinity to see this important tumuel reach the Comstock Lead, which it will fist do on the Central No. 2 ground, and within sixty or ninety days.
The owners of the Kenney ground ( 70 feet) are doing nothiug, but waitiny for develupments by their neighbors. The White aud Murplyy company, who own 210 feet, are actively engaged in clearing off their ground preparatory for the erection of house, machinery, etc. During the present season they will put up their bouse. and a "whim," and commence a shaft, which will be four by twelve feet. In the Spring they will put up heavy machinery, and push on as speedity as possible to a full development of their mine.
The Dick Sides, next adjoining, Company are now down 200 feet with their main shaft, which is corered with a substantial house. They hare their machin ry on the ground, which rill soon be upand running.

The Best \& Belcher are keeping space with their next neighbor. just noticed; both are going to work on the right basis, for properly opening their mines.

Next in order of succession comes the Gould \& Curry. This mine is too well known to weed any particular notice in such a sketch as this. The deeper they go in this mine, the richer the ore appears to be. In their lower gallery, the ore surpasses anything yet fonnd in that famons claim, both in quality and quautity.

The Savage, next adjoining, are still taking out very rich ore, and plenty of it. This is one of the first class mines.
Our correspundent confesses to not being particularly posted as to the Hale \& Norcross, but believes it to be a good mine.

The Chollar has the best works on the Comstock, and our correspondent thinks that it will soon be second to none in the T'erritory. The Company is now taking unt cousiderable ore which is paying well-about $\$ 50$ to the ton. They are now supplying four mills, and will soon be in conditivn to keep a dozen at work. Our correspondent saw a few duys since at an a say office, "bricks" to the amount of 200而s of bulliou, worth $\$ 5,500$, the result of 100 tons of ore which had just been put through the mills.

The Potosi Company are taking out some very good ore from the north end of their claim, but at the suath extremity, where they recently erected a small engine, they have shut down, evidently pretty well satisfied that there is nothing south of the Chollar line, at that point. This Company are now opening their third gallery at the dept of 310 feet. : The ore which they are at present taking out, comes from the first gallery at a depth of 180 feet. Very superior ore was struck on the 14 th. inst., near their engine shaft in the second gallery. This mine is under the management of Mr . De Land, and the manner in which work is now being prosecuted, and the substantial character of its machinery, reflects the highest credit on his energy and skill as a Mining Superintendent.
" 420 ," a name by which the next adjoining ground is known, have let a contract to sink a shaft 150 feet -4 by 12-for $\$ 22$ per foot, the contractors furnishing ererythiug. The claims situated south of this point, are embraced within the Gold Hill district, of which we shall defer mention until another time.

## Austin, Nov. 14te., 1863.

Mr. Epitor:-The Miners of this district, subject to a call made through our local paper, met on the 11 th. inst., and decided that the mines should not be laid over, by a unanimous rote. After which a resolution whas passed requesting that this decision should be communicated to the most important papers in this 'ferritory and the Stato of

California; among which I find the name of your valuable paper, and I mas as well say here, your enterprising journal, by its steady, and devoted efforto iu behalf of the mining interests in general has given it no small significence among the miners of this district.

What would have been the position of our mines, had this movement on the part of some few drones who would like to spend the winter in more congenial quarters, and hold on more feet then they could work, is too suggestive to be misunderstood. Tte fate of Humboldt with all its native wealth, stands spectre-like before our fision, and warus us of our danger. We will improve by it.
In regard to this place, such has been the rush of enterprising tradesmen with a large stock of goods of every hind, that they now stand at their doors, if they are so fortuuate as to have any, like a skipper on the quarter-deck, whistling for a breeze. [Customer?]
Mechanics as a general thing, have bad the best time of it. They have had lucrative and constant employment. Medical men have poured in by scores, proffering their services, offering balm and consulation to the sick aud dying - for a consideration. If the spark of humav kinduess predominates; it proves a dangerous experiment, for ten chauces to one, his labor goes unrewarded andhe must besides purchase his own medicines or see his patients fade like the leares in Autumn. By a combination of the druggists, the price of drugs is the greatest burden we have to complain of.
No one living away can possibly know the amount of sickness in our midst. 'lhe cold weather is now upon us, and handreds are unprepared to meet the storms and must be exposed, endangering their health and multiplying the objects of charity, already alarming.
If this is pluin talk, it is the truth, nevertheless, and as acorrespondent of your candid journal, I am, I trust, bat car rying out your injunctions when you evjoined upon me to write nothing but the truth and the whole trath. Such has been the denand on public charity, that our county commissioners have resolved on opening a hospital at the earlist date, and when it portals are opened, the rush will be beyoud its capacity. Many do not like this liberality ou the part of our commissioners. It will multiply their faxes. forsooth ! I will ask, what shall we do? Shall we hoand up our treasures, gather in our harvest, and say we have no interest in our fellowmen? God forbid! We have men of hearts, as well as nerve, and we will help the afflicted, and look to an approving conscience fur the reward. To such men as Judge --, a gentleman well known in California, are we indebted for this act of public benevolence. May Heaveu ever smile with approbation on his big heart, is the prayer of many noble souls, now restored to health, who are too full of gratitude to express their thanks for his nutireing, indomitable efforts in their behalf. Did 1 not know of his many acts of kinkness I might say less. Should this communication ever meet his eye and affurd him pleasure, let him understand, I am not done with him yet, and the whole people will cry Amen.
In my next I w 11 treat of the mines in this neighborhood, and the extent of their development. Some yaluable discoveries have been made quite recently. One called Amador, in the Yankee Blade District, has created a great excitement. I have seen some of the rock and it certainly looks like the best in this district. I shall make it a visit, and will give you the result.

## THE NEWTON COPPER MINE.

The Newton is ranked as one of the leading copper mines in the State, perhaps second only to the Union. The Proprietors were offered $\$ 250,000$ for the mine somosix months since, with a condition; $\$ 250,000$, without conditions would have taken the mine at that time. A much larger amount of coin at the presont time, however would fail to take it. This mine was furst opened about one year since. The first shipment of ore was made in January last. Since that time 1000 tous of ore bave been shipped, having been disposed of at highly renumerative prices; $\$ 20,000$ was received from one party in this city: Until recently all the ore raised from the mine has been sold without sorting:. The better plan of assorting the ore has now been adopted, and it is now divided into Nos. 1 and 2.
The mine has been opened. by two shafts, one of which, is
130 feet deep, and another 250 feet distant, is 70 feet deep.

From the first shaft a drift has been run 200 feet north anc 60 south. The second shalt is still going down. The shafte are all on the lead. Some ides may be oblained of the strength of the same from the fact that all the ore yet maised. about 1,200 tons, has been taken from these shafts anc drifts; stopeing has not yet commenced. The mine has paid expenses from the beginning. No assessment have evel been levied upon it, and probably none ever will be. It is the intention of "the proprietors to thoroughly open the miue in such a mannur, that wheuever the proper tacilities for transportation are presented they can put a large force a work, and raise several hundred tons of ore per month. A present these facilities of transportation are confined to re turn teams, all of which are loaded as fast as they presen themselves at the mine. A railroad has already been pro jected from Stockton to strike the Pacific or Folsom ruad a some point above Sacramento. This road will pass withil about 12 miles of the Newton mine, aud it is expected tha by another jear the mines of that region will develop suff cient busimess to warrant the construction of a branch to Ion City. The mines of that region will not be thoroughly de. veloped until railroad facilities are opened up for takiug th the ore to market.
There are no croppings on either the first north or sout extention of the Newton mine. Croppings which preser themselves are on the second extension only-our notu are at fault whether north or south. We are indebted for th' above particulars to Mr. J. Newton, one of the propriepor and brother of the Doctor, with whose name the mine he been mure particularly associated. The mine contains 1,80 feet, divided into nine shares of 200 feet each.

## MORE UPON CADMIUM FLUXES,

A publication of the hour revives the idea that a valuab discovery has really been made in Contra Costa Count Sacramento Street was once made to divide the honor, bif this claim is pronounced " wild cat." 'there rever was ar cadmium. There is nothing but a natural combinat on. Th proprietors of the land must get all the ole is worth as a fic or whatnot. No one may share with thent-no one else mey get anything for discovering (pshaw ! that a natural cobs bination has a greater value than a simple mixture. Its a plication is nut. patentable. (?) Is not this the argumeat of ulf monopolists? We think we do not mistake it. Thanks totl present discussion, we learn that the Contra Costa materi occurs "under the many forms-of an earth enclosing crysta of macle- of a lamellar mass breaking into leaves like slat lastly of a hard dark green rocks." Ainong its many forn five different men have, at least, found onie which contai cadmium. This is of no other value, perhaps, than showin that at present the subject is not exilausted. We are to by avery learued compiler that it may be compared with, $t$ argillaceous schist of the Lower Hartz, but that the nultiplici of its bases, renders this silicate as superiol to the schist, Newcastle to Mont Diablo. The multiplicity of bases fon bly remints us of the six days fight which resulted in change of base. Is it at last come to this that the val of this cadmiun flux is only to add fusibility? We do my deny that this is of value - but so is a nickel cent if not in California-it has not the true ring, we do not see color. More than increased fusibility and much more is, quired to constitute "a very effective flux by the aid which the differeut combinations of copper and other meta can be reduced. It is "a siticate with many bases" $b$ slags formed with it (?) have been seen by us which indicas that it has a sufficient excess of silica to absorb much ipe Is it then acid or basic, must we mix it with sand or wi iron? Some of the same slags appear to contain a propo
tion of copper so large that their peculiar "fusibility" ds not seem of much advantage -this may have been only dr to defective manipulation-is this a correct assuuptior These several points are still undecided. The proprietors the land, if they are to be the only parties to have an intert in this claim, may well be at the expense of definite examis tion.

Eils in Canals.-The well-known French author, mund Alout, has proposed that the French Governme shall stock all the canals in France with eels, both a source of revenue to be raised on grants of the right to fil. and of a cheap and wholesome food for the poorer classes | the people.

## MINING SHARE MAREET.

Transactions have been exceedingly light during the last weuk, with great fluctuations. Buyers in davidend paying mines have been intueaced by the prospects of future divsdends. The interest in must of the speculative shares is very much abated.

Gould \& Curry has declined to $\$ 4,400$. Jividends of this Company will hereufter be declated on the fitth of the month inotead of the twenty-eighth, and has heretulore been the custom. Thi arrungeasent will cuable the company to sell their bullivu on steamer days, thereby uviling themeelves of the entire proceeds ul' the previaus monti. 'The dividend fur the carrent month, will, it is thought ho \$lou per fout, but this is us yet, sumewhat conjectural. Dividends lave been sold firr \$130.
Ophir opened at $\$ 1,400$, and advanced to $\$ 1525$. Novenber dividend has been suld as high as $\$ 4 \mathbf{j}$. Traneactions in these shares have boon swall in comparison with the gales live the last few weeks,

Yotusi shares bave met with a serious decline, owing it is sadd to the prospect that the C'ompany's ledge will soun dip into the Chultar gromed. (eve our Mining Notabilia.) The Prices Courrent, in alluding to this report, suys:-" It is proper to state that this repurt is uct fully credited by those who ought to be well informed in the promises, and that other causes are assigned fur so markod a depression in the stuck of the C'umpany.

Chollur stares have fluctuated from \$i25 (a) \$900, closing' at 8 i5. It is sabd that a butter quanhty of ure has beea ex tracted from the mine racently and that the general teatures of the ledge are mach more thatering than tormerly.
Lelluw dacket has been sold at $\$ 920$ (a) 930. It is not often pressed upou the market by weak hotuers.
Best de belcher dechued sughty. Uperativas in this stock are very loght and there are but fow sellers except at full prices.

## Lucle Sam advanced from $\$ 350$ to $\$ 400$ and was well

 maintanedBurniug Moscuw has been in less fapur and sales have been at a material decliue. Large trabsactions have takeu place
 same celluote to whell we alluded last week, still cuntinue to depress this stuck - an increase of the caphtal stuck frum
 Harrisun and la crosse Cumpanies.
loupersul has sull turher dechued. Large expenditures and the inability of the L'ompuny to accumulate a fund tor the dividend account, it is stated, occasiane this depreciation. $\$ 200$ is bid.

Sheba rose from $\$ 95$ to $\$ 125$, buyers 30 , but is now lower Returas trom ore shipjed some time since to Lurope for reduction were expected by the last Yunama Sileauer, fut advices received sutistactorly explain the delay, and at an early day the result ut ten tons may we luoked tor. Su leet were suld at the cluse at 95 @ 101, chiefly on sellers option.
Sierra Nevada has tallen from $\boldsymbol{q}^{2} 9$ to $\$ S$, owing to auother ussessment of $\$ 10$ per foot. This Company have expeoded a large amount of money in their efforts to tind a wel $l_{1}$ established lode, but thus lar wathout sucess. $\$ 70$ is bid.

El Dorado rose trom $\$ 50$ per foot to $7 \overline{0}$, occasioned by the rumored failure of the Gould \& Curry Company to procure a permancut injunction againist it. it was weaker at the cluse, and sold at $\$ 6250$.
Baltic has been in some faver, and advanced from 60 to 90, but at the cluse is nut so strong. Sales at $\$ 80$ (a) 81 .

Grass Valley has buyers at at $\$ 6250$; Caledonia Tunnel Comijany, $\$ 35$; Michigan, \#3̄. Wide West, fell to 61 ; Silver thll, \$18; Josephine, $\$ 5 \overline{\text {; Coso, }} \$ 8$ à 0 ; Sheba, decliued to $\$ 95$; Melones, $\$ 8$; $;$ Blue Ledge, $\$ 9$; Uuion, R. D., $3,70$.

Owens River has recently become a favorite, owing to some develupements made in the lead of the Company. It is said that this mine abounds in ore working up $\$ 1000$ to the ton in gold, and that no difficulty is experienced in extractr ing it.

## Santa Rita, a claim of 900 feet, adjoining the Owens Riv.

 er, has suddenly risen from $\$ 10$ to $\$ 25$, in sympathy with the latter, it is supposed.Mipa Prieta (Mexico) sold on Friday at $\$ 210$. The last intelligence from the mine if quite favorable.
The Company's mill was stated to be at work, crushing 10 tons of ore fer days yielding about $\$ 1.50$ per ton.


VIRGINIA CITY STOCK LIST



Fine Specimen of Sllver Orf．－A fine specimen Mexican silver ore，may be seen at the door of Faulkner \＆Son， 411 Clay street， weighing about 400 pounds and assaying $\$ 300$ to the ton．The specimen is from a large mass， thrown off from the vein at a single blast． The Company has about 100 tons of similar ore at the mouth of their mine，ready for ship－ ment，with plenty more of the sane scrt to raise．Three distinct veins pass through the Company＇s ground，which w il average about six and one－half feet thick，seperuted by about 50 feet of unproductive rock，resembling iron ore．The San Antonio District is one of the most promising in Mexico，and is fast fill－ ing up with American adventurers．

Tabor \＆Hill，Real Estate Aents and Stock Brokers，place their card in our cill－ umns to－day．Messrs T．\＆H，are members of the S．F．Stock \＆Exchauge Board and San Francisco Board of Brokers．Any business entrusted to their hands will be promptly and faithfully attended to．© They may be found at 402 Montgomery street．

Mintra Agevct．－By reference to our advertising col－ umns it will be seev，that we have ruate arrangements to obtain special iuformation，Lleough a resident corres－ pondent，with resard to any particular mine at Reese Rivor．Parties in the city about to invest in＂feet＂
in that neigbloorbood，and not having time or cariug to incur the expeuse of visiting the locality，will do well to avail themselves of the oppinrtunity hereby presented securing relable iuformation，previous to iuvestment， at a moderate cost．
Persons already holding＂feet＂and desirous to learn through a disinteresterl seurce the actual condition of the mine in which they may be interested，will do well to
embrace the opportunity here presented of securing the desired informstion．
We shall establish ngencies similar to the above in all
e principal mining districts，at an early day．

## Giffards Injectors，


 Send for a Circular．DAvin sTodDart，agent．

Owens River Canal Company． FOR SALE，
$\mathrm{F}^{\mathrm{OR}}$ ACCOUNT OF THE COMPANY， 7 ，000 SHARNS OF
 price，now hured in this market．
Ofice of the Compauy No． 328 Soatkomery street．

New Patent Agency．

The Patent Agency Business，
And would invite fuventor，and Discorerers ou the $P$ a oific coast，who wish Dispatela as well as Econnmr to call
upon us．We bave an Experienced Agent at Washing－ ，which，together with our own experience of severa
Mining and Seientific Press Agency
The most deniruble place to mnke application for Let The most deirable place to make application for Letter Patent ou the Pacific coast，Alply at
Office of the＂Miniug and Scientio No，57，Government House，corner＂of tice Press，＂Rontr sansome atreeta，San Fraucisco．EWER \＆SMITH．

FOREIGN PATENTS OB＇CAINED By application at this olfice，Romm 57 Goverument Evus
EWER \＆SHITH，Solicitors

NOTICE TO INVENTORS． Juventors wisbing to file Cavents albould puply at thit
Office，Room No．57，rovernmeat Housd．Terms montr Offlce，Room No． 57 ，reoverameat Houso．Terms mod？r
ETVER \＆SMITH．

PATENT RIGHTS．
Patent Rights Bought and Sold，
he offle of the＂Hining and scientific Press＂）
TMPORTA TO INTTARORS． Inventors who nutain the ir Pateats through this office enn have their Inventions illustrated and cleseriled iv
the enlumns of this paper Fras of charge，they merely furnishing the engravings．Res or clarge，they merely
nish engraviocs al renconable
 ean have the ir inventions fullyy moticed aud deecribed in
our eolumns，free of cliarce．The rree ue our ent to nid treen in charge．The tree use of our col
umns ond
public will be foud ang their inventinna to the public will be foumd a most impor tant invantage to in
ntor．
EWLR \＆SMTH．

GENERAL NOTICES．

## DR．H．AUSTIN，

DENTIST，
No． 634 Washington street， Between Montgomery and Kcarny
Baths．）
I have recentiy reerived from London a New aur

 est and best materinul for tenporary（and in many cases）
permanent sets．All operations thoroughly perform permancut sets．All open
and at rensenatile prives．

## D ESK S

Office Furniture， OF ALL KINDS．．．．．．．FOR SALE BY

## JOHIN WIGMORE；

No． 423 California St．，San Francisco． office jobbing，of all Kinds，attended to．

## SQUARZA＇S PUNCH．

FIRST PREMIUM at the sacramento agriceltural state fair ALSO；FHRST PREMIUM At tho Sau Francisco Bay District Agricullural Fair， 1862 manufactory，wholesale ano＂prexam， insdorf street， Opposite the What Cheer House，San Francisro． FREDERICK MANSFLL， MECHANICAL \＆ARCHITECTURAL DRAUGHTSMAN
No． 422 California street，corner of LeidsdorIf
Drawings of MoDsus made forfparties applying for pat
ents at Whalliogtou or Londom．
mat 23
El Paso District，Los Angeles Oounty，
MINING AGENCY C．W．TAPPAN，GENERAL AGENT， ＂Head Quarters，＂Mesquit Springs，
Will a atend to nuy business conncted with these mines
for a remsonib）：

 specimeus，$)$ of ench lede in the district，a portiois of
many of which are for sate at very low figures


## R．W．IIYERS，\＆CO．，

Ohases＇New Mill，Fremont St，，near Market，
JOB TURNING \＆SCROLL SAWING．
BRACKETS，
RED WOOD BALUSTERS，
NEWEL AND CEDAR BALUSTERS for Stairs．
Manufacturers of every description of Oval， Gircular and Square
PIOTURE \＆L00KING GLASS FRAMES
All kinds of Desings for Building． R．W．MYERS．

н．С．SOMES

## IIINING LAWS AND FORMS

UST PUBLISHED BY H．H．BA NCROFT
\＆CO，being anmputation of the Statues of this State
relating to figing relating to Mining Curporations，Assesmeuts，ete，with a
digest cif decisious of the Suppeme Court and Fcrmas for
the Incorporation of Companies．Compiled by H．$B$ ．
Congilon． 12 mo．．flexible cloth．$\$ 1,50$ For sale at all
The Bookstores．

## H．C．KIBBE， IIINING SECRETARY，

 Commissioner for Nevada Territory， 542 Sacramentost．，cor．Montgomery （armory hall．）GENERAE NOTIC世思。

## HOTELS

## HAYNES \＆LAWTON，

marorters and dealars in
CROCKERY，
GLASS WARE，
FRENCH CHINA，
Coal Oil Lamps，Table Cutlery
C LOCKS ，
Silver Plated and Britania Ware， ETC．，ETC．，ETC．
NO． 516 SANSOME STREET
［CORNER OF MERCHANT，］
San Fraxcrico．

## WHEELER＇S Amalgamating and Separating Pans．

 It is acknowledged by all who have exawined the prin－ ciples and wituesaed the mperatiou of thene Pans，thatthey are deciledly suycrior for triturating and amalga－ mes are dernedy superior for tritura
mating purpuses io auy other in use．
The ninst important principle connected with the ope－ ration of these Pabs is the sulparaluou of the trituratiug
provess from th．$t$ of extractiug the amalgann from the
 ses from the passing off of the same in cnmbination with
the quicksilver，during the provers of trituration，nad in cotining ung By he iotroluction of the Separating Pao
 7uicksilver，aud hence none of tho precous metais．
Where these Pans have been introduced and operated
by the side of others on sands from the same vat the by the side of others on sands from the same vat，the
Wheeler Paus bure uniformly rainued a larce percentage of metulis over ith comperitior，as well os astill larger
parcentage su the amount of work performed．
＊＊＊These Pans man be seen io daily oneration，at the Moer＇s Foundry，on First street in this city，where all
nterested are invited to call aud exaniue for themselves． 2016－tf
zends wherier．

## Wm．P．TAAFFEE，

mporter and jobber of
Staple and Fancy Dry Goods， CARPETS，DUCK，ETC．，
Cor．Front and Sacramento streets，
San Francisco．


NATHANIEL GRAY， General Furnishing Undertaker，
641 sacramento st．，Cor．or Webb，
ceso．A．aptcanf．D．S．hecticimsos．
MET AL F \＆HUTCHTNSON＇S PHOTOGRAPHIC GALLERY，
650 Washington st．Three doors below Kearny．
Having refitted the abore rooms the Firm are now
frenared to furnish the public with superior stylo of prenared to infish the public with a superior etyle of
Picture，at a lower price than ever before oflered in the

## eity．CARD PaCTURES．

As wh have every facility for producing these benuti－
ful pictures，in all lheir difterent varieties，we have re－ duced the price to

## \＄3．Per Dozen！

Large sizod Photographs \＄3－Extra copies $\$ 1$ each．
AMBROTYPES in all Styles and prices： OID PICTURES conied with care and accuracy，is any
atyle desired．Particular attention paid to pictures of style desired．Particular attention paid to pictures or
Cbildren．
Tiftures painted in Oit or Water Colors，and retnuebed

International Hotel， Iackson Street，－－－－－－San Francisco ［A few donrs abore Montyomery．］ Most convenient to the
ing，Business ats．\＆Places
OPEN ALL NIGHT
City Railroad Cars Pass the Door．
REDUOTION IN PRICES．
Fine Bathing Rooms attached to the Barber Shop
Warm aud Cold shower Baths Free to Guests．
$T$ HOROUGHLY RENOTATED AND NEWLY FUR－ nishel this spriug．Every Room opens to tho Light
Air．Each room is furnished with a first quality and Air．Each room is furnished with 2 irst quality
Patent suring sed nud Harr mattresses．The Iuternation－ 31 offers to guests the greatest number and

Best Furnished Family Rooms； and sEss As cood A Table as any House in the city． I am determined that ine LNTERYATONAL shall be the most comfrartable，best recplated，and in ull respects sul
perion to any like establisinmunt in the state，and shail nim to merii a continuance ef the popular favor it las
enjoyed heretofore．It will be conducted on Temperance Principles．

F．E．WETGANT，Proprietor．
Tremont ELouse，
418 and 420 ．．．．．Jackson street，
［ow hoors from Montgomery，］San Francisco，Cial．
THIS FINE，FIRE，PROOF BCLLMNE OFFERS MANY hivanturges to the cravoler fir convenience．It in
only half a block frum the Post Oflce and Custom Houne， and ubout the same distance from the priucipal places of and about the
imusement．

The City Railroad Gars pass the Door．
The Houso is conducted ou Ternperabce Priuciples，
whice secures to our guests quiet．
The prices for board and Roons are very moderate－
by the das，meal or week．We snuctr a CALL Fkos ALL F．E．WEYG ANT，Proprietor．

For the accommodation of my many gaests $T$ have ta－ keu and refurnshed the Internatisat．Hotel，and will carly un the tiso housps in contrection，so that Travelers
wisbiug to put up at erther house may take the Trenunt Wishing to put up at either house，may take the Tre nuunt
or International Hotel Coach aud be takeu to citler llouso with their biggage，FRER．F．E．WETGANT．

## THE RAILROAD H O U is E．

Nos． 46 and 48 Commercial and Clay Sts．， San francisco．
Stephen Smith．．．．．．．．．．．．．．．．．．．Proprietor． The above House is a Fire－proof bnilding，with Gravite Front，and kept on the Eurupeab Plan，witb board and lodging by Day or Week to suit the convenience of our
The Rooms are handsomely furnished， upplicd wilb Patent Spring Bedh，and Hair Mattraseen， nlfording rery superior accommodations for tamilies or The Table is supplied with the best the market afords at prices to suit tue times．
The Rail Rond House Coach is always in attendnnce at the steamera to convey passengers and their bagguge to the Hone Free of Charge．
The House is open all night．

## P．M．S．C O．

PACIFIC MAIL STFAMSHIP COMPANY＇S road with the steamers of the Atiantic and Yaciic
Steamship Company at Aspinwall Steamship Company at Aspinwall．

FOR PANAMA．
The following Steamships will be dispatched in the
month of November， 1863 ． mond or
Nox．3i，－－－Steamer Golden Age．
Nov．13th－－－Steamer St．Louts．
Nov．23d Steamer Orizaba．

Will lenfe Folsom Street Wharf，with Passengers and Treasure，for Panama AT O CLOCK，A．M．PUNCTLALL，Y， AT 9 OCLOCK，A．M．PUNCTEALLI，Y， teainships for New York．
For Freight or passage，apply to

A．B．FORBES，Agent．
Jo4．Corner of storamentn and Leidesãni sts．

FOUNDRIES \& MACHINE SHOPS.
REYNOLDS,

Patent Cut-0ff and Goverior, FOR SLEAM ENGINES.
127 or thens Invatuable Machinea,
 Saving 20 to 6.5 per ceut of the Fuel.

| Ingersollss Patent <br>  elt for steam Boile Steam Engines, Bo |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

MOYNIHAN \& AITKEN,
Boiler Makers and Blaoksmiths,
Mission, between Beal \& Fremont Sts,
Sun Fruncisco.
N. B All kinds cf Bniter and Sbeet Iron Work exc Cuted at the shortest notiee, and on the must reasonill
jy 29
terms.

## P UMPS!

harrison's
California Lift and Foroe Pump,



ALL SIZES

C. H. HARRISON, Phoesir $\mathrm{O}_{\mathrm{IL}}$ Worss,

## e-15

 517 Front Street, Sin Frnucisco,
## 60 lbs. MIARINE and

Fire-Proot Paint,


 quite equal to couper, no worm
cheaper Lan any other paict.

> DIRECTIONS :

For Docks nfShips, use two parts Bfinoral Paint, one
part White Lend, mixwilh Linseert (ili.

 for sate by allship Chundlers and Tradesmen, in boxe
of 50 lbs . euch, or by the Pacific Metallurgical Works.

## 25 POUNDS FIRE-PROOF PAINT.

When used on Ronfs, Buildings, on Fences, it is equat
to covering them with a coat of Stune, bung perfectly
Firo Proof, and costing less than any viiut.

wORKs, North Beach; Offce, 509 Sac-
ramento at., San Hrancisco.

FOENDRIES d MACHINE SHOR'S.
PALMER, HANECCUM \& CO.
GOLDEN STATE LRON WORKS,
Furaish Castings and Machinery of all kinds

Genciar White Iron Shoes and Digs. Pal.jer, hanscomb \& Co.
To Quartz Miners. K.nox's Improved

AMALGAMAIING PAN, wim
PALMER'S PATENT STEAM CHEST.
The above combinatiun secures the most
 nonicat uat on mer wothe thed is the mant efrictive ant eco.


The public are informed that Letters Phtent have heen
granted be undermignect upon stam Chest Enlee Bot-

Jorv $P$ ger
Josery h. Wien.
GALLAGIIER \& WEED,
BRASS \& BELL FOUNDERY AND

## LOCK FACTORY.

Frass and Composition Castings and Finishing, done with neatness and dispatch,
$C$ gurch and steambuat belis, of atle size.


All Jubs promptly attended to.-Prices moderate.
Remuved fro

> Miners' Foundry

MACHINE WORKS, First St, between Howard \& Foltom;
 in thin state of catilondia, will he furnished with dis-
pateli ut the Mivern' Foundry and Machine Works, ns: stenm Euginers aud Bollerp, Flaur, suw and Quartz
mill machiuery, sining Pumps, Amaigamatura, Relorts, Particular attention will be given to the monufnceare I Machinery iu Sections, , Mesigued for pluces of difificult
coush. Various mudels of Quartz Crusliers, Annalganas.
 *** Purties desiring to test their ores practically, in
maill quantities willbe afforded ample facilities, free or

All parties desiring accurate and highily finished draw
ings nud Liuperior Macbinery, at mosi reasonable rates

San Irancisco, February 23 , 1803 ,

## San Francisco Machine

## IRON WORKS!

## Northeast conner Fremont and Mission Streeta.

A LL KNDS of MaCHINERY MADE TO ORDER mret reasuable terms.

 REPAIRING promptly attended to.
San Francisec, Inly, 1853.

## FUL゙NDRIFS \& MACHINE SHOPS.

VULCAN IRON WORKS COMPANY

## P. Torquet, Munagex, <br> STEAM ENGINE UILDERS

BOILER MAKERS,
Iron Founders and General Engineers,
No 137 \& 134 Firat streot, San Francisco. Pumplng, Holiting, Miaing an uartz-crushing Machinery.
Stoees and Dles of the hardest iron,
Russia irou Punched Screens.
Stcamboat Machlnery: Saw, Flour and Sugar Btils High and Law Presure Bethere of all sityles. Joxval and othor Turbine Water Whects with lacest inprovementa.

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders Cor. First \& Market sts., Sam Francisco.
$\mathrm{B}^{\text {ABBET METAL CASTINGS, FIRE ENGINES, FORCE }}$

 COUPLING JONTHS of ALLE size. Man Macturers of "G

## D. MORRIS,

 MAOHINE SHOP 227 Market, corner of Beale Street. Matwfacturer ofWARRANTED FIRE-PROOF SAFES sill Wowk, if ali kitind mate to order, All kimls or
jel3

## LEWIS COFFEY AND RISDON,

 STEAM BUILER AND SHEET IRON The only oxclusively Euiler Muking Eatablishment on the Pacitic ('onat Ownod and condueted by Practical Boiler Makers. All ordors for New Wark, the repairingof Uld Work, exucuted as ordered, and warranted as of uld wh
to quality
Old Stand, corner Bush and Market Streets.
Opposite Oriental Hotel, San Francisco, Cal.
Lewis cuffey
[HEODOR KALLENBERG
Maker of Models FOR INVENTORS.


 | nom |
| :---: |
| n7. 3 mm ; |

## HIRAM WRIGFTT, pick marer,

Has established a Manufactury for the Making of
MINER'S PICKS, MINER'S PICKS,
NO $1: 21$ BUSH STREET, SAN FRANCISCO, [Betweeu Sansome and Battrry,] Wherr can be had a superior Pick for Miners use As he manuactures all his picks under hin owu personal
surpervisin, be warrank ibem an boing made of the
best materal and by the best workmandyip. beat material and by the best workmanibip.
Orders attended to and Eilled promptly and with dia patch

## WRIGHT'S PICKS.

$J$ OHN WRIGFT, of Sacramento, has establisned him-
nelf in San Francisec, for the manufacture or every Relf in San Francisec, for the manufacture of every
eription of PICKs, of the best materin, nt reducen
cus. Pick Eyes of the best iron furnished in any quan pricus. Pick Lyes of the bestiron furnished, in any quan
cily, nt low rates Ordera from the country promptly tity, nt low rates Ordern from the country pramptly
attended to. N. B.-None Eeuaine unless atamped with
my name.
JOHN WRIGHT, 511 Market ntreet,


CALIFORNIA TOOL WORKS!
John Weichhart, All Kinds of Edge Tools, Etc.,

No. 22 Fremont streot, bet Mane Cutter's Tools,
San Franciseo, July 14, 1863 .

Patrat Clatess-To will furnish, on application, tho clatu of uly iavertivu that lan berdipatentod withu the last tomiteno years. The oam' of the patuatee-date of fatent, whon known, and two dullars for copying should bo aent.
 sout to us, their unmes und add ess, it a lugible, for
muweut furm, this will avoid confusfon and provort muneat furm, this will avoid confusion and provans

Dhawings, Wo bavo bighly taleuted and emeleat Draughtamon, by whom drawiugs of every uiscriptiona are execthed in the vest atylo of arl, with promptitude, mad at a madurate cost.

## WANTED

By a competent person, the socretaryship of roas Miving Compances. Buriks to be kept at the Office or the Miung and Scicatlic Press, No 57 Guvernment House aquite as ubove.

SOUTH PARK
Quartz Mill and Reduction Wor ${ }^{\text {kss, }}$

Offce in Shiel'a Block, opposite J. П, sisonic'lemple 4 CO,

## W. W. HANSCOM,

Steam and Mechanical Engineer,
Designs furished, and Drawings made for Engines, Mille, Water Wheels, Mining Machinery, etc., 'te.,

State Iron Worles,

Eye, Ear and Throat.

## DR. DE CASTRO, Oculist and Aurist,

W RO HAS PRACTISED IN NEWW such unrivalied success, and trum ench pace is la possessulted upun diseuses or these dielicate argans, with a view
sum to their permarient cure. Duafnens of loug standing tho-

## Self-adjusting Artificial Tympanum,

For the reliel of deafiness, attended by luseor mjury of the membrana ty upani, anil tor the cure of disclarge
from पle ear-the invenition of De Castro, M. D, author of "Leafinehs P'ractically Illustrated as to its Nature and
Trentment," etc,
The selt-uljusting artificial Tympanum was first introduced to the hotice of the professinn at the meeting of the Medich Surdety of Loudnu, on the 20th of Nuvember,
i863. All aumated discussion thated wh the readang of the paper, aud several mumbers of the siciety bore testimony to the success nf the remedy and the importance of Mr. Baker Brown (nember) bore testimony to the Self-
 tron it. She was hanget, fuite deaf, and in a most mis-
erable state; the effect of the tympanum was instantane-ous-quite like a miracle, Five more testimonials frum dembers of he Menical College, New York, and the priacipal cities of Europe. Kearny streets. Entruce ou Market strcet.
15. Mr. Editor-Having been affilioted With deathess for the last swo years, originating truma
severe cold, aud for the lukt monih, sulleriug from the severe cold, aud for the late month sulleriug from the most excrutisting pains in my ear, I was obliged to cnme
lown to San Frnucseo to seck relief. After a pliysician's lown to San Frnucisco to seek relief. After a plysician's
recumendation to wait on Dr. De Castro, on the corner of Kearny and Market atreets, and underwent one operation, and it is with the utmost pleasurc I cansay my heariog wan suddenly and withont patu entirely reatored, I deem it my duty on make this keowu to the bublic, and to re-

Jnmes Callughan, witness,
San Francisco, July $30 \mathrm{th}, 186$
[From the Datly Altn.]
san Francisco, June 30th., 1868
Ed'rs Datry Acta:
Permit mo through your widely circulated journal, to Permit mo through gour widely circulated journal, to
shy, thut my daughter Mary Ellen, has been afticted with hay beren a member of the Deal and Dumb Institute since it was rikanized. On takivg hry to Jr. De Castro, on the corner of Kearn'y and Market sireets, and undergoing un
der his dircetion, two operations, slo hats luard sound
 his skill ; and would rreammend all partios similurly at
ficted togive lina a trial My dauliter has at dilferent dicted to give liin a trial My daugliter has at dilrerent
times ben under the carc of the mont mbiful physicin;
and aurists in Califonnia, but un to the period of visitin and aurixts in Californan, but un to the period of visilin.
Dr. De Castio, receivod no benefit. Dr. De Castiv, receivod no benefit.
CHAS JOHN P. WRIGHT,


GOLDEN AGE G．\＆S．MINING CO．， Austin，Reese River．
OFFICE， 57 Gioverment House． WM．POOLER，SEC＇Y．

KUSTEL \＆DEETKEN＇S
METALLURGICAL WORKS
SILVER AND GOLD ORES，
Taillings，Snlphurets，Arsenuirots，Etc．，Etc．，
Cuyellation and Refning of Silver and Gold，
Practical Assays for Silver and Gold，
a Small and Large Quantities，by Smeltiug，Chiorization aud Piun Nuaipulation．
Works－on the sual Bruiv Ruad．
－Orfice－No． 605 Moutgomory st，San Francisco．

HEPBUEN \＆PETERSON＇S

## AMALGAMATOR．

The subscribers would call the attentlon of the Min－ Ing Pubue to their Relucer and Alnalgamator，atd also
to their Separator for reducing und separating the mine ralifom GOLD AND SILVER ORES，


MINING NOTICES．


$\qquad$

 Board u＇Trustees of the Pinucer Cosn（fold and silver
Mining connpaty，there will will be sold at public aut








## San Francicon，October 30， 186.3

Emmet Copper Mining Company．－Nu－





Ruth Windsor Tunnel Compary，Es－ meralda di，triet．－Notice is hereby given that an asisess
ment of fifly cents
 ver，lij3，payable imediately to the Sceretary it his
orfice in Ulitul Stite gold covia．


## Mining Shares For Sale

D．A．ORANE，
Office 28 Government Block． 475 Shares U．S．Mining Company，Vurginia City．
910 Shires Granada Guld and Silver Mining Company ingibia Hill，Virginit City
168 Shares Evoca Consolidated Copper Mixiug Com－ 20 Shares Molaye Minit
20 Shares Solare Miniug Company，La Paz Distriet 30 Stares Af
30 Shares Afpiuwall Gold aud Silver Miniug Company
peril＇s Ga：e District，N．T．
75．Shares IF If chiugton Copper Siniog Gompany，Indiau
Bar，Tuolumno Co． 298 Shares Mon
pany，Inyo Distric
90 Shares Owen＇s County Consolidated Gold and Silver Miniag Cumpayy，Iuyo District，Tulare Co． 50 Shares Crown Puint Ravise
Compruy，Virginia District，N．T．


| Heyer Bros．y 76 and $\boldsymbol{z} \delta$ Federal Street， BUSTON． | Heyer Brogs 406 batkery Stree SAN FRANCISCO |
| :---: | :---: |

## HEYER \＆CO．

mporters of
AERICAN AND EUROPEAN
Fancy Goods，Toys \＆Musical Instru－ ments；also，
HOAPS，PERFOMERY，HAIR AND TOOTH BRUSHES



Hallet \＆Davis＇Boston Pianos，
Smith \＆Bros＇Harmoniums，and
Treat \＆Linsley＇s Melodeons，
The Hantet \＆Irris P Hans are ench suphed witl


N1N゙ING こえュDS．
OWENS RIVER CANAF COMPANY．
Capital stock
．\＄1，000，000
10,000 Shares
： 8100 per Share．
A Portion of this Stock is no offered to FULL PAID AND UNASSESSABLE

HOWNER \＆CO．，the autherizell Agents of the Compauy


ARIMSTRONG \＆WILDER，
firginia city，n．T．，
SEARCHERS OF RECORDS
for Hining Claims \＆Real Estate．
RELIABLE ABSTRAOTS
guaranteed at reasonable prices，
LETTERS OF ENQUIRY
prompuy answion．
MINING SECRETARY 512 Suasome Street，sua Fraucisco．
Secretnry nf－


T．U．Sanborn \＆Co． STOCK BROKERS，
No．630，Montgonery Street．
$\mathrm{O}^{\text {Phir silver Mining stuck，}}$
GOULD \＆CURRY MINING stock，
Chollar mining stock，
Calfforna steam Nattgation co
BOUGHT \＆SOLD．

## NEW MINING AGENCY．


 Private Renefit or Parties
in this city or elsewhiore．for correspoudent will visit
 ammunt of woik whech may have been rone，etc．A rea
gnante fee will be requiced for kuch service．For fur ghante fee will be requirwd for such service．For
ther ufination apply at this oftice．
EWER\＆SMITR，

## L．F．LELAND，

STOOK BROKER， No． 621 Clay strect，
Office Fours， 10 to 11，A．M．； $21 / \frac{1}{2}$ to $3 \frac{1}{2}$, P，M．

## AGENCY

MEXICAN IIININGSTOCIS

Culifornia．
All persons are invited to cull and examine ores from
the abuye mines，
jel3 abure
jel
Wr．FAUIIRNER．

## New Bedford Copper Company． <br>  Sientuing Copprr； <br> Brazier＇s Copper； <br> Copper Borits； <br> Yehifow Sheathing Mefali Copper avd Conpostron Nats <br> Which they offer to the Trante at the lowest market <br> rate，and on the most favorahle terms． <br> 108 Froat Sleet，San Francisco．

## BUSINESS CARDS．

## A．C．MORSE， <br> Mining and Real Estate Agent； <br> 

Fire Hose！Fire Hose！！Fire Hose ！！！ J．P．D．WILKINS，
The celebrated HAlNisss MAKER of Sineletnn，makes a trial of the．Webrer Slemm tinguee Co No 3 ．of the city
of Stock ment，alal known to stavd a presure of $1: 25$ pounds to the square inch；us certifite by

ALSO FOR SALE，
All kinds of Harwiss and Sanduery，at tho lowest cnah
pricen．Reparisg done promplly，one door west of the

## WANTED，

GOLDQUARTXSUITABLEFOR CU＇ITING JEWELRY，
au3I
By frontier a．DEviercy，

THE EUROPEAN ORE REFINING
COMPANY
Quartz Mill and furmaces，Bryant Street， Crossing Third，Snn Francisco．

RECEIVE ALL KINDS OF

## ORES AND MINERALS．

LATES EUROPEAN METHODS，
CAREFUL ANALYSIS，
their works，to be the most Efreetual in oblainlog re－ liable results，and aflorwards convur ing whatever pro－ cimos Motals Lhey may contuin，into marke ta Ule Jugota，
The South Park，and Folsuma and Kerruystruei C Cars ss Bryant strect

The Pacific Mineral Compnay，
$\mathbf{M}^{\text {ake liberal advances upon the oris of }}$ Copper，Silver，T＇in，Nickel，Cobalt，Zinc， Lead，and Solphurets containing Gold． Due account taken of all valu ible inetals connbined
with silver aud Capper Ores，and advancos mado thero－
Parties owning undevelloped mines and desiring capita！ on mospect the shans wall rece ive assigtance，if，upon ex－ ustify sull expenditure．
OFFICE，No．1，ODD FELIOWS＇HALL，
je1－tf Juotgomery Street，SLo Franciso

## MARTIN \＆Co．，

OFFICE－－．224 Montgomery Street，Up Stairs，

## wll contract for time

Purchase of Copper Ores，
Assaying 8 per cent and upwards of Cnyper to the Ton． We will make ADVANCES upon Ores of COPPER，TIN Soclis will be firnicheff and Freights Paid on all con－
sigumenta if desired by the consignors． Henry Martin，J．F．Greenman，

San Francisco Pott Omcs，Box 1259.

NORTH BEAOH QUARTZ MIUL REDUCTION WORKS
Arc prepared t
am 11
qunutities．
 Our hew and rumplite M Mchnery，will enuble us to
give results fully up th the nerits uir reels．

WHEEJER \＆TEAYER，Proprietors．
C．C．JONLS，A mulgamator
San Francisco，Oct．13，1888．


## VOL. VII. SAN FRANCISCO, MONDAY EVENING, NOVEMBER 30. 1863.

NO. 5.

Rocod Valley, Nov. 22d, 1863.

## Miving and Scientific Press: 'Tis not often I write

 a fact, I make a poor fist at it-bat, with your permission, vill make my grand clebut in "Bay (iircles," as my return d, unsophistocated friead sail the other day. I write for hree reasons : because this region, so little vaunted, at leas eserves notice ; because the printer wants copy, and beanse it is meet that we oceasionally throw a fow rays of Jalitornis true light, in the paths of those blinded by Boise, leese or other distempers. True, these places may be rich, have we uot as good country at our own doors? Howver, it is idle to reason with those afficted with the "fever," or " distance lends enchantment to the view."In these grand old hills, that stretch from the Columbia to he Colorado, and from the Pacific to the Great Basin, slumer countless thousands of veins of gold, and silser and coper, that time and willing hands will yet reveal. You need Iot go to the far-off Frazer, nor to the wintry heads of the Yolumbia ; nor to the burning deserts of the Great Basin, to ind them; but here, on 'Fornia's bounteous soil, is a field so astly extended, that the yet unborn, will reap fabulous forunes from their own discoveries.
Fearing that this strain will not suit the "practical," I ilil turn to local affairs.
Round Valley, from which I write, is situated near the ent e of Plumas county, and is of but litile consequence as valley; what little notoriety it does pos ess, is derived from numerous gold-bearing quartz ledges in its vicinity. As
facilities for working, this country is unsurpassed; timber every variety and in the greatest profusion, abounds on ery hill-and lying apread in full view of every ledge, is dian Valley, embracing fifty thousand acres of as fine agcultural land as there is in the State.
The Ellis Ledge is the pioneer ledge, nine handred feet of hich is owned by the Round Valley Quartz Mining Comhy, who have two fine quartz mills in operation, one with elve and the other with sixteen stamps. They are said to doing well ; a proof that "there is something in it," is st the mills have been operating successfully for nearly two 3rs. They have excavated to the depth of two hundred d fifty feet.
The ledge of first importance, however, is the Blood ledge, nod by Bolinger \& Co., who have a twenty-four stamp mill fall operation ; it is yielding most handsomely; it does 4 soul good to see the glitt ring bullion every clean up. Next comes the Waterworth ledge, at Granyille, two miles tant, which is truly a master ledge, and when worked with isple machinery, I believe will be equal to the best. WaterHeth \& Co. originally owned the whole of the ledge, but id one half to Messrs. Blood \& Harvey, who incorporatec Nicr the name of the "Indian Valley Quartz Mining Co. ]addition to those named there are four other quartz mills ipperation, and all of them seem to be doing something. told is not all we find in this region; copper is also found il 1 bundance. The Superior Ledge, owned by Major Bidpi \& Co., situated a short distance from here, promises to $\nabla$ with Copperopolis ; also the Gennessee Valley Gold and ()per leads are ranked among the best.

Space will not allow me to particularize, but in future I contemphate giving yon a geographical view of the country here, as also a minute description of the working and appearance of the several miues, adding any further facts that may present themselves.

Benedict.

## Austin, N. T., Nov. 20, 1863.

Mr. Editor: I have now been in this mineral kingdom about ten days, but bave not yet availed myself of any opportunity to visit the reported good ledges in this vicinity. We have had some little snow and rain, but all is fair again, and tha ground is almost destitute of any suow, and all is lively in the haste to get our winter shelters completed. I bought lomber to build me a small house, but speculation claimed too much for a building lnt; therefore I piled up my lnmber and hired me a room until Iean satisfy myself about which is to be the great city of Lander county, and whether he mines will warrant half the expectations placed in them. There seems to be four or five mills pretty nearly ready to run, and some of them doing now a smashing business. I noticed this morning our second sew mill in operation, cutting from our short nut pines, good framing timbers and roof lathings, much cheaper than buying them at $\$ 400$ per m. ft. I meet with none who do not seem to have the fullest assurance that this is a great mineral section, and that the next season will prove a harvest of much wealth. When we look at the investments being made by mill and mercantile companies, it argues strongly for their confidence. I will endeavor to give you my impressions of mines, \&c., here, very soon -just at present I am very buisy roofing \& large building, and this contract completed, I will expect to take notes on the hill side.

Yours, truly,
B. $\mathbf{W} . C$.

Mercorial Vapors.-A writer for Herper's Magazine, in giving a bistory of the celebrated Almaden mine, gives the following description of the deleterious vapors arising from the works:
"One of the most curious circumstances connected with the New Almaden mine is the effect produced by the mercurial vapors upon the surrounding vegetation. Despite the lofty chimneys, and the close atteution that has been devoted to the secret of effectually condensing the volatile matter, its escape from the chimneys withers all green things around. Every tree on the mountain side above the work is dead, and some of more sensative natures further removed exhibit the infuence of the poison in the shaken and blanched foliage; but these effects do not extend to any great distance. Cattle feeding within half a mile of the hacienda, sicken and become salivated ; and the use of the waters of a spring rising near the works, is guarded against:: It does not, however, affect a mineral spring near by, which possesses the peculiar qualities of soda or Congress water. The workmen at the furnaces are particularly subjected to poisonous fumes. These men are only able to work one week out of four, when they are changed to some other employment, and others take their places for a week. Pale, cadaverous faces and leaden eyes are the consequences of even these short spells; and any length of time continued at this labor effectually shortens life, and impregnates the system with mercury.

In " Reid's Handoopk to Neweastle," the particulars are given of the raw material consuned per ammom in the alkali works of the kingilum: - sait, 255,600 tuns; coal, 951, non tons: brimstone and chalk, 380,500 ; pyrites, 264,000 ; nitrate of sida, 8,300 ; manganese, 3.300 ; timber for casks, 3,300 : totol, $1,834,000$ tons. "Nearly one-half of these materials are worked up in the neighborhood of Neweastle. The salt employed is almost exclusively the produce of the Cheshire mines; but at the Felling works rock salt from Ireland is dissolved and hoiled down by waste heat from coke ovens.

Ingentous California Invention.-Mr. J. S. Henning, of this city has made application tor a patent for an ingenious iuvention of a machine or contrivance fur recurling music as it is played upon an iustrument. The principle of this invenwill not be made public until the patent is secured. The prime agent, is electricity, produced by a novel method, differing from a galvanic battery heretofore known. Mr. Heaning was also the origiuator of a self-reporting telegraph instrument, patented by Amos Kendall, and is the party who proposes to build a telegraph fire-alarm in this city during the present year, if the City Fathers so direct. Mr. H. has devoted much attention to the study of electricity, eapecially in regard to its application to economic purposes.

A Surscriber," writing from Diamond Springs, is anxious that our "Traveling Correspondent". should visit the mines of El Dorado county, and report upon them, as be is now doing upon those of Calaveras. It is our intention to keep one correspondent constantly in the field, whenever the roads are in proper condition for convenient travel. We fully agree with "A Sabscriber" as to the importance of such a course, and trust he may soon havethe pleasure of a call from the correspondent of the Paess.

Large Sales of Mining Ground,-L. A. Booth and Gross \& Lambard, have lately sold to the Eclipse Mining Company, ten feet of ground in what is called "Gold Hill proper," for the snm of $\$ 55,000$. This ground, though steadily worked for the past three years, now shows more ore than ever.

IT is reported that the W'ashington District, which lies about forty miles to the south of Austir, Reese River, is proving rich and extensive.
The Oldest Rose Buse, in the world is supposed to be at. Hildeshein, in Hanover: It was planted in the ninth century by Louis the Pious, and in 1078 Bishop Hezilo had a wall built around the tree to protect it., It has lately put forth new shoots from the old roots, one of which is twelve feet high and nearly an inch in diameter.
The Stokton Independent thinks that in two years Washoe will contain 200,000 people, and be dependent on Califorcia for breadstuffs.
Letter from Esmeralda.-We would call particular attention to a very excellent letter from Esmeralda, which will be found upon our second page.

## ESMERALDA.

The mining district known as Esmeralda is situated mainly in the county of the same name in Nevada Territory but running over the line, seperating the Territory from the State, into Momo County; California. Aurora, the municipal town in the district, is nearly due east from San Francisco, a distance of 250 uniles. By the Route mainly traveled heretofore, via Sacramento, Placerville and Genoa, the distance is 380 miles. A good wagon road, however, is being constructed across the mountains from Sonora, Tuolumne County, which was within two weeks of completion when the snows prevented the further prosecution of the work until Spring. When this road is completed Aurora will be within two days of San Francisco, by steamboat and stage: The geographical position of Aurora is favorable for growth. independently of its mineral resources. It is in a direct line from San Francisco to Austin, Reese River District, shortening the distance about 200 miles, The Sonora rond completed, supplies for Reese River, Excelsior, Silver Mountain, Monitor District and Owen's River will naturally find their destination through Aurora, that being the nearest and best route to all the places named.
climate.
Much misapprehension seems to exist in relation to the climate of Esmeralda. That there is much siekness and many deaths occur for the population is true, but most of the instances of mortality are tracable to other causes than the unhealthiness of the climate. With the same conveniences and care the climate will probably prove as healthy as that of San Francisco. Substantial improvements, adapted to the cl mate, are constantly being made, and with these there can be little doubt but that the health of the district will improve, which even now will not suffer in comparison with any other one east of the mountains.
as a mining district,
Esmeralda is regarded by many as under a cloud, and the earnest enquiry is repeatedly made; "Do you think the mines will ever be successful $?$ " or "Is the story of the uncounted wealth of Esmeralda only a golden dream, destiued to disappoint all who have cherished the hope of renumeration for their toils and sacrifices?" These enquiries indicate a want of information in reference to the work already performed and its encouraging results, notwithstanding the numerous disadvantages which the district has suffered. The discovery of gold and silver bearing quartz here was made by a few adventurers some four years ago. Pitching their tents in a gulch half a mile soutr-east of the present city of Aurora, their attention was attracted by the heavy quartz croppings on the sides of Silver and Middle hills. The discoverers are said to have been without capital and could only stake out their claims and wait for something to turn up. They were more than a hundred miles from any settlement, the geography of the country was little known, they bad no supplies, no roads, and the surrounding country presented only a grand disolation, whose hills and gulches had vever echoed to the voice of the white man. The report which these discoverers made soon attracted a large number of the same class, so that before any considerable capital was enlisted a large proportion of the best ledges had been appropriated by men who had not the capital, if they had the energy to develop them. This fact accounts for the comparatively slow progress, made in mining operations in the district.
the quartz mill.
Another occasion of delay and disappointment arose from the class of mills at first erected. However much expense and time these projectors may have devoted to them they were utterly inadequte for crushing the rock and separating the metals. Some four or five of the primitive structures still stand, as silent monaments of the folly of attempting to force the bullion from the rock, however rich, without proper appliances.

There are now seven mills in the district, capable of doing satisfactory work, embraciag an agregate of 86 stamps, only six more than the Gould \& Curry are now running. These mills are all busy, night and day, nearly all of them on two claims-the Pond and Real Del Monte-the only ones in the district fully opened; the latter producing $\$ 100,000$ per month. The whole amount, from all the mills, falls a little short of $\$ 200,000$ per month. Three additional mills are in process of erection-the Real del Monte is nearly or quite ready for operation, having a battery of 30 stamps, and in al
its appointments equal to any mill east of the mountains. The Antelope, with twenty stamps nearly completed, and the Durand, just commenced. All three are to be first class mills.
wild cat speculations.
Another serious drawback upon the development of Esmeralda Mining District, was occasioned by the graceless wild cat speculations of last winter. It seems difficult to decide whether to be amused or indignant at this phenomenon called "Wild Cat." J.he sellers were not honest or the buyers were not shrewd. If it were allowable to manage a little, it perhaps might be said that the declaration that they who will be rich fall into a snare, was exemplified in both buyer and seller; the latter being snared by the temptation to dishonesty and the former into loss by his credulity. But cats, whether wild or tame, like dogs, must have their day, and the wild-cat speculation has risen, flourished and declined, leaving the seller with the reputation of having lost his conscience and the buyer with the conscionsness of having parted with his money without receiving un equivalent in value.

## GOOD FROM ETLL

But it is said there is no unmixed evil in the world, and so it seems likely to prove in this case.
The decline in stocks has induced holders to develop their ledges. That Esmeralda Mining stock will come up at no distant day may be regarded as mainly certain. But they will rise on their own merits. The time and rate of advance will depend on the labor and capital devoted to taking out and working the rock.
the rock is rich.
Fifty-two consecutive assays taken from the books of Van Night \& Winchester's assay office, the record of assays made from rock taken from the different claims in Eemeralda district during this year, show an average of $\$ 445$ per ton. This, of course, was most of it fair selected rock, and cannot be regarded as a fair estimate of the product of unassorted rock. But the lowest estimate we have heard of, the product of the rock crushed during the last six months is $\$ 75$ per ton, aud a large proportion of it has exceeded $\$ 100$. One company, the Pocasset, before its consolidation with the Crocket, was offered $\$ 110$ per ton for their rock, at the mine, but declined the offer. The Pond, the Real del Monte, the Antelope, the Utah, the Chemung Tunnel, Durand, Brewster, Middle Hill Tunnel, Manita and numerous other claims, so far as developed, are equally promising and will in due time blow their own trumpet.
But, the inquiry is respeated, "If the Esmeralda mines are so rich, why do we not receive the bullion?" Well, sure enough. Why? For the same reason that the Feather River does not furnish any water for the bay of San Francisco. All its resources are emptied into the Sacramento, and that river receives all the credit. Esmeralda bullion falls into the Washoe current at Genoa and comes down as bullion from Washoe.
But what about the Wide West? Honestly we cannot tell. It is apparantly a great swindle or a great fizzle; and yet, from all the facts accessable to an outsider, a Philadelphia lawyer could not decide which it is, or whether either. The story goes that in shifting Superintendents and hands the original Johnson ledge, from which their rich ore was obtained, was lost and though they have looked for it with lighted candles, for many weary months, no trace of it is visible. So to pay expenses the magnificent mill is crushing Del Monte rock, and the company are still hopefully searching for the lost treasure. It is to be hoped that the search will be more successful than the one made in the Polar regions for Sir John Franklin, though some cherish the belief that the game is to "freeze out," and others, that the whole thing is effectually frozen up as the distinguished northern adventurer himself.
J. B. Saxton.
A. Loyal and Useful Citizen-Mr. T. C. McCaffey, of Knoxville, Tenn., served three months under Genéral Jackson, thirty-two months in the Mexican war, twelve months in the present war, and has sent eleven sons to the Union army, four of whom were killed before Vicksburg.
Iron-clads.-There are thirly iron-clads now in the course of construction from the plans of Ericsson. There are in addition to these, a large number of different construction, now upon the stocks or just launched.
"The American Tea Company" was chartered by the Legislature of Pennsylvania, it having been represented by the tea-plant grows indigenously upon portions of American soil, and that they possess most of that soil. The company hare employed Dr. Spencer Bonsall, an man of experience and character, to examine the American tea-plant, and he speaks most confidently and encouragingly as to the success of their undertaking. Dr. Bonsall is a gentleman of good reputation in the scientific world, and for sis years be held the responsible position of superintendent and chief manager uprn the lands in India of the Assam Tea Company of Calcutta and London. He has reported specifically on the present undertaking. He declares that the tea-plant exists in Pennsylvania and Western Maryland beyond all duabt. "It grows indigenously," he states, "in the greatest luxuriance and abundance, in the places that I have risited, limited, however, to those localities which afford the peculiar soil indispensable to it, as is the case in Ohina, Assam and Japan." The character of the plant differs somewhat from the Chinese variety, but the difference is not greater than might, be expected from the difference of climate and soil of the two countries, The leaf-and this is the important point-is almost identical with some of the varieties from which the best tea is made in Assam; and Dr. Bonsall expresses his belief that tea equal to any brought from China to this country could be made from this plant. He thiuks that the specimens of both black and green teas that have been prepared from it should satisfy any unprejudiced mind that they will bear favorable comparison with imported teas; and their appearance and quality will improved as the manipulators become more expert, the present process being rude.

## SUGGESTIUNS ABOUT FOREIGN PATENTS.

American inventors should bear in mind that, as a general rule, any invention which is valuable to the patentee in this country, is worth equally as much in England and some other foreign countries. Four patents-American, Euglish,French and Belgian-will secure an inventor exclusive manoply to his discovery among one hundred millions of the most intelligent people in the world.
Models are not required in any European country, but the . utmost care and experience is necessary in the preparation of the specifications and drawingse
When parties intend to take out foreign patents, ergrav. ingsshould not be published until the foreign applications bave been made.
The facilities of business and steam communication are suen, that patents can be obtained abroad almost as easy as at homs. The majority of all patents taken out by Americans in foreign countries are obtaiped through the Mining, and Scientific Press Patent Agency. Having established agencies at all the principal European seats of Government, we obtain patents in Great Britain, France, Belgium, Prussia, Austria, Spain, etc., with promptness and dispatch.

Caution.-It has become a somewhat common practice for agents located in England to send out circulars soliciting the patronage of American inventors. We caation the latter against beeding such applications as they may otherwise fall into the bands of irresponsible parties, and thus be defrauded of their rights. It is much better for inventors to entruat their cases to the care of a competent, reliable agent at bome.

While it is true of Most European conntries that the system of examination is not so rigid as that practiced in this country, yet it is vastly important that inventors should have their papers prepared only by the most competent solicitors, in order that they may stand the test of a searching legal examination; as it is a common practice when a patentee finds a purchuser for bis invention, for the latter to cause such examination to be made before he will except the title.

It is also very unsafe to intrust a valuable invention to any other than a solicitor of known integrity and abillity. Inventors should beware of speculators, whetber in the guise of patent agents or patent brokers, as they cannot ordinarily be trusted with valuable inventions:

Eels in Canals.-The well-known French author, Edmund Ahout, has proposed that the French Government shall stock all the canals in France with eels, both as a source of rereaue to be raised on grants of the right to fish, and of a cheap and wholesome food far the poorer classes of the people.

Stoar fron Swiks - Sugar has been obtained from the skins of siakes by a Freuch chemist, and the process is given in the daily journals of 1'arris.

A cerrors observation respecting the rapidity of eaghes in thrir flight, has just been made by a traveler crossing the Grison Alps. An eugle, in flying from one mountain peak to another, at a hight of eight or nine thousand feet. performed the distance of five miles in five minutes.

Tufre has aleady been received as comutation under the enrollment act $5,500,000$, which suin, and all muneys hereafter realized from this source, are to be expended in bounties for enlistments.

## G. E. MOORE, Assayer and Analytioal Chemist,  cal work, is prepared to execuate the Asxay and Auaysits of Oces, Miueral Waters, Gumbus, ete., with accuracy and diapuich.

RhFterncks :
Prof. J D. Whitney, State lieologist, gan Francisco.
Alson \& C Ch, Sin Finncisco,
Suther Chareh, Ran Frincinco
Jolum P'srot, sum Framelsco
D. O. Mills, sacrameuto.

## ASSAYS!

Promptness and Accuracy secured
By the Use of the Most Iaproved Methods of
A N A L Y SIS!
Advantageons Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHILL, M. A., (FRou Ergoes, \$1 Government Block, corncr of Sansome and "HINTS FOR YROSPECTURS" Free by Post.

RIEHN, HEMME \& 00 .,
ASSAYKRS.
Office, Montgomery street, cor, of Oalifornia

## Assays Made of ores, Minerals

 and Metals.
## regrerrbd witi prrmishov to

 CBas. F. RIEAN, late U. S, Bronch Mint, gives Lessnos io


## We wat a gaod Agunt in want very y

ment, on this Connat Agunt in every crity, town and settle-
 W\% H ELVER \& SMITH.

## MEAD \& VAN TASSEL,

 HATTERSMontgomery st., cor. of Conamereial, San Francrsco.
$T$ OUR FRIRNDS AND THE PUBLIC GENERALITY. Friskra \& Co., in this city, we sharli, on the list day of May assumo the managemeut of the

## HAT EMPORIUM,








receipt, by every stonmer of foft ginds of the very inust
Frrenoh and American Manufacturc.

Respecifuly
MEAD \& VAN TASSELL.

## THE

## BRYAN BATTERY

The vast interent invelven in the reduction of oren on

 yenrs, has becu bet duws as a failure. The orduary

ALONE STANDING THE TEST
This, with the Impratements which Experienco han
fungrstert, wo now regarded, by common consent, us the sugerstent ha
ouly rellable

METHOD OF CRUSHING ORE.
The Bryas Batterr, as now conatructed, is bolieved to combine all thir improvem"nts which the experier.ce

## EXCLUSIVELT ADOPTED

by many of the mast promivent Miining Companies in the
 in every case have been promounced

Effective, Subetantial and Reliable.
They are now extannively used throughont the mineral regionk of Callfornin, Verada and Mexico, and
have estrblishel a claim to pulblic coondenco, never yet cqualled in uny piece of mining machanery.
These Mills aro constructed almost entiroly of Iron, and, consequnntly, are mot affected by the intense heal
and diy $y$ ness of aimmophore, counsion to all mining localand drynses of impeshore, combinon to all minagg local-
tied. They are udapted to
BOTH WET AND DRY ORUSHING,
and are warranted to reduce, with the same weight of
 nerfect mill-while any lumber of them can bu added
at a subsegent time--linus presorviog the symetry and at a subrequnt time-th
uniformity of the Bill
As an evidence of the incrensing favor witb which these mills are regardod, we would mention that the
Celebrated Ophir Company frat introduced them into
 Bntteries, each sulbacquent year, until th
Xineteen, ruaniag Seventy-six stamps,
They are perfectly atterl and net up at our Workn, be-
ore shiphing, ench pieca heiug marked and numbered, ore shinping, ench piege hefing marked and numbered,
go that they can be pru up und set at work in tell hours
 Bat tery weighing complete hbout B,000 pounds,
and the Five Stump Rbont 7,000, The Mortar Bod veing caat in sectiona, when desired, so that the mills can be
packed over any mountain ruad.

We annex the names of few woll knowo Companies
who have adopted them $\quad$ runuing from fur to seventyeve stamps eacl-to whom reforence is made:

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co. Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co., Virginia City, Tajo Mining Ca. Mexico, Sheba Mining Co., Humboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Mining Co.., Owen's River, Enion Quartz Co., Aurora, Triunfo Mining Co., Mexico, Napa Quartz Co., Aurora,
Petaluma Quartz Co., Gold Hill, Francis Mellus \& Co., Slate Range, W. R. Churchill \& Co., Mexico, Willow Springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Fl Hews, Howe \& Co., Rich Gulch
F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Gibith \& Clouser, S. F. Reduction Works. A.magoza Mining Co., San Bernardino,

MANUFAOTURED ONLY BY GODDARD \& CO.

## At the Pacific Iron Works,

 SAN FRANOISCO.os 125 to 136 First street, and 126 to 144

MINING \& SCIENTIFIC PRESS.
THE ONLTMINIVG, MECHANICAL AND SCEENTSFIC PAPER UN THLS CONTINENT.
ThIRD NEAR: VULCME VI,-NET SERIES


Will bind it an excellewt mectiom for the purnose o progress of invention in thiv and ntlaer countriea, the



The Mechanic and Manufachurer ! Will bo greatly benefittel by its peruasi, as ita col-
umus will trom time totime contau oripiat enurav
ings of now machinos und inventions, together with n
We are constantly receiving the best scieutide jour-
to extract whatever may bo of benefit or intorest to
The Mining Interest ?
Will find it of grat value, as it will contain all the
news apportaining to Mining, the pricos and sales of 1 l news anportainiuk to siining, the pricos and sales of 3 ipurpose, and of everythang geuorally that may bo of ser-
To Chemists, Architects and Millwrights.
This journal will be invaluable. All new discoveries in Cheroistry will be given, nnd a large amount of infor.
mation of great service to Arcluitecte and Millwricht mation of great service to Arclitects and Millwrights
will be foumd la our columns. The Farmera aud Plauters will not be neglected, eugravings will be given o agricultural implements, and
erally will be amply discussed.

## Terms.

To mall subscribers:-Four Dollars per annumb Club Rates
Five Copies for Six Montles, 88.
Ten Copies for Six Months, $\mathbf{\$ 1 6}$,
Ton Copies for Twelve Monthe,
Names cau be seat io at difforent times and from
aifrent Post-ofrres. gratis to any part of tho country.

EWER \& SMITH, Pablishors, Room 57, Guverument Fiovse, Corner of Washingtod

## I. C. E. KLEPZIG \& CO.,

## GUN MAKERS,

DEALERS IN GUN MA'TERIALS, 733 Washington strect, San Francisco, [ H e D Dor above Kearney street.]
Repairing done in e, workmanlike manner at the shor Gilding, and also Silver Platiog, by E. Ekland. je21

> LEANDER RANSOM, Civil Engineer AND

SURVETOR,
Having been connected with the public works surveys of the State of California for 7 years.

## ALSO

STATE LOCATING AGENT.
And as such baving the sale of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price or $\$ 1,95$ per Acre.
Torms-Twenty por cent in cash and the balance
on a crentitof several years.
OFTICE OFFICE, 328 Montgomery streots.
0c7-3
D. NORCROSS,

Masonit Temple, No. 6 , Post Street.
Military Gcods of all Descriptions.
Navy Trimmings and Embroideries.
REGALIA FOR ALL ORDERS.

## PEOPLE'S

OPPOSITION Steamship Line! Spectal Notice.-The $n$.
ine have ither caragua Route unill further moticm-


## TO QUARTZ MINERS,

A 11 persons interested in Mining Mraex imino my improved Amaigamator. It is unquestionably superior to any thing now known for amalgamating
Silver and Gnld. It woiks 1000 pounds at a time, aud Sitver and Gold. It woiks 1000 pounds at a time, aud
will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is diawn through its centro and passes uuder it, between the grinding sur-
faces, to the circumference: from whince it passes aqain aver the muller to the centre, through the holes and be-
tween the grinding surface io tho ulrcumferenca as betweed the grinding sutce Thus a constant circulation of the pulp is kept up, bringiog the particles of ore again and again uoder the muller, and reducing the whole mass to an impalpable powder.
No quiclsilver lies between the surfaces to be ground,
hut at the circumferagce and centre of th- pan where the hut at the circumference and centre of the pan where the
metal must pass through it as the pulp circulatos. A patent was gramed for this Amalgamator in Docember last, and all persons are again warbel aganst
purchasing machines made at the Minern' Foundry called "Whecler's Amalramator" as they are av infry called on my patent, and a suit is now penतlug In the U. S. Circult Court agannt the partica infringing. My Amalpa-
mators can be seeu ruuning at Dunabue's Fnundry, whero all can judge of their operation and the very superios Eep2I THOMAS VARNEY.

## PATRONIZE home manuracturies!!!

James Longshore,
Trunk and Valise Manufacturer,
307 Saneome Sreet, under Tehama House. Trunks and
Valises, Wholesaleand Retall, Fine Sole Leather Trunks, Valises, and a five assortment of LADIES' TRUNKS constantly ou hand. Trunks covered und repaired.

## APARTMENTS.




## FOR SALE.

 Russia [ron Quartz Screens for Mulls; Portable Furges; Cauldron Ketlles; umps, both Frame and Lift
Wrought Irou Pipe ;
Bibh Cocks ; Couplinge ; Play Pip Bub Cocks; Couplings ; Play Pipe Cooking Stoves and Eea ing Stovea
Tin Plate: Sheut Iron : Sheot Copper Fruit Cans of Various Kinds; Lard and Butter Cans of all Sizes ;
Iron Wire; Brass Wire; Copper Wire
Copper Rivets and Burrs; Iron Rivets; Etc.

## We are also manufacturers of the

UNHQUALLED
MONITOR COOKING STOVE Or RANGE,

For Hotels.

Sonora and Mono Road.-The work puon this road, which is alluded to by out Esneralda Correspondent to day, has been suspended for the season, but will be resumed a the earlicst possible moment. Persons tho came over the route within a few weeks past (before the late fall of snow,) inform us that the road was thes in fine counition, and ouly about six or seven inches of snow on the summit. Tlue workmen employed on the Patterson contract had all left the monntains, and Learitt's and Hot Spring's stations on the other side, were deserted. 'I'he new road, so far as it extends, is admirably constructed. The traveler can travel mile after mile on a broad, smooth road, almost as level as a floor. When completed, this will be by far the best moututain highway in California or Nevada. The Commissioners, having finished their labors for the present, made their leport last week.

Processes of Silfer and Gold Rxtraction (waste?)-by Geido Krstel-SAn Francisco.
In fulfilment of our promise of the week before last, we present some results ohtaiued in Victuria, Australia. The accounts derived from the London Mining Journal, have more than the usual amount of authenticity as they are connected with litigation in one case, and with dividends in the others., Mr. Goulding is the inveutor of an amalgamator of the Wheeler Pan class. It is thus discribed:
"Mr. Goulding's machine does not materially differ from an ordinary arrastra; but being constructed of iron, and in segmeats, is capable of removal with far greater facility. The great improvement, however, appears to cousist in the mode of feeding; by attention to which, Mr. Goulding has succeeded in obtaining very excellent results: The pan is a circular one, with a round bottom; and the drags which are used as a substitute for the ordinary stones are cast to fit The segments are bolted together, and the joints made tight by india-rubber, or other suitable washers; and the drags being placed in position aud attached to the arms, the appa ratus is ready for operation. Mr. Goulding thus describes the mode of using the machine:-Put in slowly j cwts. of pulverised quartz from the stamps, and add as much water as will reduce it to the consistency of mortar; then pour in 10 tbs . of mercury, and let the machine work for one hour, at ten revolutions per minute; then open the trap-hole in the pan, and let the contents be discharged into a wooden trough, from whence the ore is carried off by a stream of water to a "shaking-table," in which the waste is separated from the quicksilver and amalgam. This operation is opposed to the old method of feeding and dischargii g continuously, but the results are at least double what may be obtained by any other way of working the same machine. The amalgamators may be-worked in tiers, one above another-that is to say, in parts, two machines being worked by the same vertical shaft; and, with proper working, about ten of the pans may be'worked by a 20 -horse engine. The dry griading operation shonld precede the wet amalgamation process. The drags are grooved for amalgamating, and withont grooves for the dry grinding. The long mooted question of getting all the gold is, in Mr. Goulding's opinion, solred in this pan. and he claims that each pan can amalgamate 5 tons in 24 hours; and with ten pans, which would give 50 tons a day, or 300 tons a week, the working expenses, including fuel, management, labor, \&ec., would be less than 2 s . per ton. Some of the machines have been in use at Stieglitz for some time, and have given satisfaction."

Mr. Bland the resident director of the Port Phillip Co. reports that--twenty tons of roasted blanket sand which according to an assay previously made, yielded 1 oz 7 dwts and 10 grs , to the ton, [probably 2240 tbs .] yielded in Messis. Rob-on \& Lancashire,s arrastra only 15 dwts- 20 tons of unburnt blanket sand which according to previous assay yielded 3 oz 6 grs per ton, were reduced with a result of 18 dwts. per ton. Mr Goulding claims that this arrastra is identical with his own.
The Independent Company paid a dividend of 281. 8\%. per share for the month, from 100 ) tons of quartz, which yielded only 151 ozs. of gold, or a fraction over 3 dwts . to the ton.

The New Perseverance Company, on the White Horse, paid all working expenses, and placed 160l. to the credit of company, from a month's crushing of 1600 tons of quarts, which gave only 119 ozs. of gold, or about $11 / 2$ dwot. to the ton. The quartz was taken from an open cutting about 40 feet deep.

Mr. Fox, President of the Miners Association at Helstone, is our authority for statiog that a jigying machine (of Mr. Hunts) had extracted 12 grs. of gold--the whole quantity the stuff contained-from a ton ol sand brought from Yan Dieman's Land. Let it be observed that this is little more than 1 part in 100,000 . If this be true, jigging for gold is as good as assaying, in Cornwall, at any rate. : If we now turn to the book whose title heads this article-a diligent search will disclose the following matter for comparison.

| Smiths Process common 4-foot Pau. | Wheeler's 4 -foot Pan. | Hephurn's 4-fuot Pan. |
| :---: | :---: | :---: |
| Charge. . . 50 lbs - (p. 68.$)$ | 750 lbs . | 1000 lbs , |
| Time.... 5 to 6 hours. | 3 hours. | 4 tons pr 24 hours. |
| Yield. . . . 50 to 60 per ct. of total silver. | 60 to $70 \mathrm{pret}, \mathrm{p} .69$. "At least 10 pr. ct. more than common Pans." p 85. | No estimate |
| Quicksilver used. . . . No statement. | 50 lbs pr. charge. | No statem't |
| Lass in Quicksilver.... Unascertained. | Unascertained. | No statem't |
| $\left.\begin{array}{l}\text { Steam for } \\ \text { heating. }\end{array}\right\}$ | $\left\{\begin{array}{l}\text { 1-16 curd of wood } \\ \text { per } 24 \text { hours- }\end{array}\right.$ | \} - |

[^13] Loss in silver. 40 to 50 pret. 30 to 35 pr ct. No statem't

## Samples, Page 85 [1.]

lines, Pages 85 and 82 [2.]
Chemicals Pages 84 and 110 [3.]
Adhesion of amalgam, Page sit, [4.]

1. "The difficulty in stating the loss is chielly found in the attempt to get a reliable average sample for the assay, especially it wet crushing is goivg on, The sulphurets and gold are al ways concentrated in the vats, where the ore falls in from the battery, and every inch in it shows a different anonnt of silver. The next vat shows the same difference, having, hesides, alrealy so much slime that a mixing for the purpose of haring the metal equally distributed in the masi, is impossible without drying.
The Calculations on the superiority of Wheeler's paus, at least to the present date, are derived from the comparatire yield and the uppearance of the tailings, according to which these pans seem to yield at least ten per cent, more than the pest common pans.
2. A great difference as to the result will be found in a comparative working of the finest sediment (the slime) which glides between the muller and the common pans almost motioulcss, as if it were oue mass. while in Wheeler's pans the slime is forced under the muller with the same speed as the ore.
3. This is also the reason that it seems as if the quicksilver were protected by the chemicals against being gronnd to scum, because the black powdered quicksilver is less visible. Purposely applying a very low temperature, the amalgam, apparently pure, turned black after retorting, and consisted mostly of iron.
4. It occurs often that a great part of the amalgam denosits in the amalgamating pans. At other times, no deposit of amalgam takes place in the pan 4 , or one pan may retain as much as one hundred pounds, wheu another has none at all. It seems that this appearance depends on a variable electric condition of the iron.

We regret to say that the data on which this is stated as to the effect of electricity, are not given-thas it has little scientific value as it now stands. We, ourselves, however, hare observed in a pan in which an electric current has passed through the quicksilver, that the amalgam froze on to the spaces between, and not cuvered by, the guide blades.
We cannot conclude these comparisons better then by quoting from page 116:
"At Mansfeld, where Ziervogel's method is practiced, in extracting silver from copper matt the lose of silver, according to the recent accounts of $\mathrm{D}_{\mathrm{r}}$. Heinbeck, is 7.06 per cent. in roasting and 1.20 in extracting the silver, making the total loss of 8.25 per cent."
It stands thus, then: California and Nevada Miners! you are wasting from 20 to 40 per cent of your silver over necessary loss, and yet you are told that you will never adopt "precipitation" which saves it.
Stars.-The number of variable stars hitherto observed is about eighty, and it is the opinion of some astronomers that every star under the third magnitude is variable. One of these stars a few years ago, apparently disappeared altogether, but about a year ago it re-appeared suddenly, with more effulgence than ever.

Lengthening the Erie Canal Locks.-The New Tork Pos' says: "The engineers on the Erie Canal are making a survey for the proposed extension of the locks. The surveys and estimates are for locks two hundred and twenty-five feet long between the gates, and wide enough to pass boats twenty-six feet wide-the estimate to be presented to the Legislature on the first day of its next session. It is supposed that locks of these dimensions will enable boats of five hundred tons burden to navigate our canals, and also to pass iron-clad gunboats into the lakes if required. Some idea of the size of these new structures may be obtained when it is remembered that the present locks are only one huudred and ten feet long between the gates, and seventeen feet four inches in the bottom."

Wabhor Granite.-There is a great deal of this material used in building in Virginia, many of the larest fire-proofs having their window and door sills and cappiogs, and steps fromed of it. It is a very excellent material for building pur-poses-being light in color, and much softer than the granite in California. It is but little more difficult to cut than ordinary sandstone, but becomes very much harder on exposure. Correctly speaking, it is not a true granite, as it contains no mica-its components being quartz, horubled and fieldspar.

Auleged Rich Strike. - The Virgtnia Union of November 5 th, says:
"We were yesterday shown a fine snecimen of rock, taken from a ledge just struck upon the Pride of Washoe. It was of a silgular character, being composed of iron pyrites and rich sulphurets of silver. The mine is situated in South Spanish ravine, on the northeast side of Mount Davidson A tunnel has been run into the hill, and at a distance of one hundred and filty feet from its mouth, a shaft one hundred feet deep sunk. From the bottom of this shaft a drift was ruo sixteen feet north; then a straight shaft was sunk eightyfive feet, and at that depth this roch was struck. The ledge exends clear across the shatt, which is six feet wide; how much larger it is is not known. This point is about two hun. dred feet below the surface.

Fine Copper Ore.-The first shipment of ore- 10 tonsfrom the Fureka Consolidated Company, on the Green Ledge, near the Zinc House, Nevada county, arrived in this oity on Friday last, and can be seen at the Pacific Warehouse ; this is one of the finest lots of sulphurets which we have ever examined. We understand the company has a very beavy vein of this ore, and are just beginoing to take it out: They are now raising about five tons per day.

## MEXICAN MINES.

San Marcial appears to bave been drawn from the market, owing to the excellent prospects of the Company. Their mill has been started and works satisfactorily. A large quantity of good ore is stated to be now on the surface.
The Tecoripa Company, it is said, hase taken out considerable ore. Their mine is believed to be a promising one, and a mill is to be erected at once.
The Providencla, a portion of the famed Santa Juliana vein, is being reopened and occupied by new owners. The latter mine, tradition says, sielded $\$ 3,000,000$ in seven years.
The Cruzecitas Company are at work in the erection of reduction works, etc. The requists machinery is now at the mine, and the mill will, it is supposed, be in operation within a few months. A large force is employed in enlarging their shaft and in extending drifts.
The Refugio Company is very favorably spoken ot. Ample machinery has been seut to the mine. Two veins of gold and silver bearing ore are to be opened immediately.
In the vicinity of these mines and near the old mining town of Jesus Maria, there has been found lately a Quicksiver lead, said to be very valuable. It is represented that at a depth of 18 feet the vein of cinnabar is more than three feet in width, averaging about 25 per cent. The attention of capitalists will doubtless be called to this important discovery so soou as a thorough test of the mine has been made. Meanwhile the work of developement is to be Figorously prosecuted.

- Messrs. Coffey \& Risdon are constructing a large and substantial brick building, on Market strect, for their boiler works.


## MINING SHARE MAREDT.

The transactions of the week have been quite limited; is part owing to tho prevailing depression of the market; the interuption in consequence of the observance of the annual Thumbsiving Iay, also operatiug to dimiuish, to a large ex. tent, the anount of busituess.
Uphir shares haves slightly improved, with cousiderable fluctuation, as will be noticed by the sules of the week. The accuunts from the mine, particularly from the recent strike in the nurtheru portion, continue quite encouraging, which, in connection of the large remittances of bullion, warrant the expectatiun that the coming divideud will reach \$48 per foot.

Gould \& Cunty remain at about last quotations, and have been but little dealt in. Dividends for November have been held at $\$ 120(a \leq 130$.

Burning Muscow has been the chief feature at the Board. Opening at quite all advance over closing rates of last week these shares gradually fell to a figure $\$ 20$ below the lowest rates of our last quotations. It is ufficially stated, that of the large increase of shares (now 6,000.) in this company, recently created by its consolidation with three other compauies, 1,900 are reserved for the benefit of stockholdersan important consideration to buyers.

Baltic has been considerably dealt in, first, at an advance, but clused at from $\$ 3$ (u) $\$ 6$ less than last week.

Caledunia 'I'unnel Co. has been in considerable demandtwo hundred und six shares laving changed hands at from \$35@)\$45

Potosi shares declined to $\$ 1050$.
Yellow Jacket, sold first at $\$ 1000$ and declined to $\$ 940$. Overman declined on first sales to St2.), then fell to $\$ 400$. Uncle Sam, declined to $\$ 325$; North American, to $\$ 60$.
Bullion, has a market at \$45; El Dorado, \$51 ; Charles Cany, $\$ 10$; Grass Valley opened at $\$ 60$, and closed at $\$ 50$, sellers; Buckeye, \$10.

Wide West has met with a fair business, opening at a marerial advance, but closing at $\$ 67$.

Chiluahua and Western Summit have also been largely dealt in ; two hundred and tweaty five shares having been sold at irom $\$ 25(a) \$ 35$.

Sheba is enquired for at an advance over last quotations. It opened at $\$ 11$ and closed at $\$ 160$.

Melones has a market at $\$ 90$; Union, Russ District, at $\$ 3,25$

A Prophecy-The Humboldt Register thus prophecies: "Taking the past as a guide for the future, we can sately predict that in ten years from this time, Nevada Territory will have a population of five millions; her alkali plains will be threaded with railroals; she will be connected by rail with the Pacific and Atlantic occans. Mines, rich as the Cphir will be successfully worked in all parts of the 'l'erritory; nor will we then be circumscribed to the business of mining for gold and silver. Our mouatains of almost pure copper will be of value; our abundance of the bestiron ore in the world will be brought into use, and our acres of the purest salt abundant for the use of the whole world, lying ready to be sackec, will then find a market.

$\square$


REEPORT OF BIDS
 Sirvage
Challar
polosi
 Sierra Novada
Sier
Saney Burumg Moscow" Vorth Putos Meredití Charlos Caney
sacramento Lowa -
EL Dorado
VortonNortor
Buruside Burnside
drlutic Bremaus -

Prise File of Wost | Im |
| :--- |
| Ce | Ceuar Hill Tumael

Sount Diavidson Central
Californ liogers,
Lucerrae lady Bryar La Cr
Moss
Porte

Crown Point
Kanhattan Mannattan
Hurlsout Lunty Enle
Schiller Scheca
Senuviu
Rhmbralioa stocis. Wule West
autolope dutolope Real Del Monte Utah
Silver hit
Vevada Federal Hope Sonth Utah Jeuny Lind
falls of Cly Fralls of Clyde
Sunbeam, s. w Bambio

Great We | Burlington |
| :--- |
| El Yaso | EI Paso

Crockett Crocket
 Josophine. Whlow Spring Empir
Cuso
arizoan man
Mina Prieta Miun Padre COPPER STOOKS
Nayoleon Napoleon
Joseplijue califorxij Lrurel Hill - -
Rhoules Diggings Eurcka
Fellowes Fellowen
Rock Rive Rock R
Utica
Uem Hombolot stoczs. De Snto
Great Ba

SALES FOR THE WEEK ENDING NOV. $4,1803$.


| 5 Wide West, \$80 por sharo. |  |
| :---: | :---: |
| Hido West, sho pur share. |  |
|  |  |
| - 5 Whe West sto per shic |  |
|  | ${ }_{5} 5$ Wide Wrst, sou per sb |
| ${ }_{5}^{2}$ Wide W Wod, mive |  |
| ${ }_{10}^{5}$ Barck je, 12: ${ }^{\text {d }}$ per |  |
| 10 Mulone, $3: 50$ |  |
| ${ }^{5}$ Uucle sum, ${ }^{\text {a }}$ |  |
|  |  |
|  |  |
|  |  |
| अ山'山ing |  |
| 20 Burrime Mo |  |
|  |  |
| 10 Wrdu West, 85 per fool, |  |
| stac wert, so per hook, |  |
|  |  |
|  |  |
|  |  |




15 Wide Went, $\$ 75$ per share, b 50

|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## SATURDAT

20 Ballic 80 per share.

20 North American, $\$ 60$ por share. 5 Yellow Jacset, $\$ 940$ per foo 10 North Americau, 560 . 20 North Amryican, $\$ 60, r$ W. 10 Josephine. $\$ 7$ per share, 50 Union, R D, \$3 75 par ahare
5 'luss Catny, $\$ 10$ per share. 5 Chas Cany, $\$ 10$ pe
1 Wide West, 564 , 12 Widir, $\$ 1500$ per 36 'pair, 1550,
60 Optir, 1580 .

```
60 Oplir, $16.5, b 30
```

$2+$ Ophir', sisu0,
25 Shella, 150 per foot,
25 Shella, 150 per foot,
infoot Gnuld \& Curry dividend tor 4 Chollar, $\$ 885$ per foot,
10 Yesurins, 6 H, $\$: 0$,
 15 Tcal l.elge, E, 83750,
12 Gov Seymour, $\$ 28$,
10 Oregon, $\$ 25$, 10 Oregon, $\$ 25$,
25 Star of Nevad 25 Star of Nevada, $\$ 25$,
50 Star of Neval, 2250
20 Star of Nevada 525 20 star of Nevada, $\$ 25$.
25 Rising Suu $\mathrm{H}, \$ 1050, \mathrm{~b} 80$ 24 Jnserbine, Cose, \$7,
10 Josephine, $\operatorname{coso}, \$ 7$ 10 Jonephine, Coso, $\$ 7$ ' 25 ,
50 Baron Humbuldt, $\mathrm{H}, \$ 6$, 50 Baron Humboldt, H ,
50 Omahn, copper, 83 ,
50 ,

## REMOVAL,

The Office of the Mining and Scientific Press, has been removed to Rooms Nos. 56 and 57 Goveroment House, corner of Washington and Sansome Streets. We have been induced to make this change of location, not ouly with the view of securing nure room and better accommodations for ourselves, but chiefly to better accommodate persons having business with the office. Our location is now central, easy ${ }^{3}$ of access, and in the direct way of the chief travel of the ity to and from the Post Office.

A Grost ciub has been organized in Lon don, having for its object a research into the possibility of "ghosts," or the appearance of the spirit upon earth, after death. That the club is in earnest, may be gathered from the fact that the committee advertise for a "haunted house," oue whose reputation is well authenticated. The "Londoners," are looking with much interest for the result of the proposed researches of this association.

Wooden vs. Iron Ships.-An ordinary iron ship of 1,000 tons internal measurement will carry a dead weight cargo of 1,500 tons, while a wooden ship of the same internal measurement will carry only 1,463 tons, 27 tons, or two per cent less than the iron ship. The iron ships will weigh 775 tons, while the wooden ship weigh 1,000 tons. The former displaces 2,275 tons of water, while the latter displaces 2,473 tons.

The Swiftest Steamboat ever built is said to be the Mary Powell, running between New York and Poughkeepsie. She lately made the run between the two cities at the rate of 25 miles an hour, running time.

The Pole attracts magnets, but our glorious country attracts thousands of Poles.

Tabor \& Hili, Real Estate Agents and Stock Brokers, place their card in our culumns to-day. Messrs T. \& H. are members of the S. F. Stock \& Exchange Board and San Francisco Board of Brokers. Any business entrusted to their hands will be promptly and faithfully attended to. They may be found at 502 Montgomery street.

Mrityg Agexcr.-By reference to our advertising columns it will be seen, that we have made arrangements to obtain special information, through a resident correspondent, with regard to auy particular mine at Recese River. Parties in the city about to invest it "feet" in that neighborhood, and not having time or caring to incur the expense of visiting the locality, will do well to a rail themselves of the opportuvity hereby presented securing reliabls information, previous to investment, at a moderate cost.
Persous already holding "feet " and desirous to learn through a disinterested source the actual condition of the mine in which they may be intorested, will do well to embrace the opportunity here presented of securing the desired information.
We shall establish agencies similar to the above tn all
the principal triniug districts, at an ently the principal maining districts, at an early day.

## вмставор.

## 

## Tabor \& Hill

## Stock Brokers \& Real Estate Agents,

## 502 Montgomery St., cor. Sacramento,

Buy and Seli Mining Stock on Cormmission. Are mem bers of the San Francilsco stock \& Exchange Board, and of the, San Francisco Board of brokers.

## Giffards Injeotors,

$\mathrm{F}^{\text {OR SUPPLYING OILERS WITH FEED W WTER }}$ should be without ove of thess valuable lnstruments. Send for a Circular.
je22 Cor. Pine nnd Front Sts,., Sau Francisco.

## Owens River Canal Company, FOR SALE,

$\mathrm{F}^{\mathrm{OR}} \mathrm{ACCOUNT}$ OF The Cosipan presenter to the ste public as the best investment, for the price, uow offered in this market.
Ofico of the Compuluy No. 328 Montgomery street.

## REMOVAL.

OFICE OF THE PACTEIC METAL Having ealarged our Worls to North Beato street Having ealarged our Works at North Beach, wo are
now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.
Gold d ad Silver ore, and Sulphuret Assayers', or sil
versmiths' sweevines versmiths' sweepings reduced or purchased.
COPPER OBES-Highest market
 509 Sacramento street, near Salusome,

GENERAL NOTICES
DR. H. AUSTHN DENT1ST,
No. 634 Washington street,
Between Montgomery and Kearny, (over San Francisco I have recently recpiven from London a Now and Which is fur superior to any other ever used. It is ligh eleanly and durable, and of a natural color. The cbeapest and best material for temporary (and in many cases) permanent sets. All operations thoroughly performed
and at reasonable prices.

## D ESKS

Office Frurniture,
OF ALL KINDS......FOR SALE BY
JOHN WIGMORE,
No. 423 Callfornia St., San Francisco office fobbing, of all Kidds, attended to.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultural state falr
ALSO ; FIRST PREMTUM
At the San Franeisco Bay Distriot Agricultural Fair, 1863
Manofactory, wholesaie and'? inetar,
No. 44 Leidsdorif street,
Opposite the What Cheer House, San Francisco.
FREDERICK MANSELL,
MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN,
No. 422 California strcet, corner of Leidsdorff
Drawings of Mopesw made foriparties anplying for nat
ents at Washington or Louton.
mat
El Paso District, Los Angeles County,
MINING AGENCY.
C. W. TAPPAN, GENERAL AGENT,
"Head Quarlers," Mesquit Springs,

## Will attend to any business connected with these mine

Lemters of exqurry. cuntaining Revinue or Postage Stamps to the Fatne or frity crints, and cuclosing an ad-
dressed euvecope for reply, will be prom specimeus, of each lode in the fistrict, 8 portiou of many of wich are for sale nt wery low bgures.
For further particulars he would refer to $\mathbf{j .}$. Bur-
 au31,

## R. W. MYERS, \& CO.,

Ohases' New Mill, Fremont St., near Market,
JOB IURNING \& SCROLL SAWING.
BRACKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturers of every description of Oval, Oircular and Square
PIOTURE \& LOOKTNG GLASS FRAMES For the Trado at New York Prices.
All kinds of Desings for Building.

## R. W. MYERS.

## mINIIVG LAWS AND FORNIS

 relating to Miving Corvinrations, dsseuments, etc, with a
dizest off digest of tecisions of the Supreme Court and Forms for Congilon. 12 mo
the Bookstores.

## H. C. KIBBE IIIIVING SECRETARY,

 Commissioner for Nevada Territory, 542 Sacramento st., cor, Montgomery (armory tall.)GENERAL NOTICES
New Patent Agency.

## 

 The Patent Agency Business,And would invite Iurentors and Discoverers on the Pa-
eific coust, who wish Dispatel as well as Economy to call eific eaist, who wish Dispatelas well as ceouomy to call.
upon us. We have an Experieuced Ageut at Fastiog. n, which, together with our own experience of severa
Minixg and Scientific Press Agemey Yhe most te.irable place to make application tor Letter
Patent out the Paciac oost. Apply at Oflice of the "Minigg and Sciestific Press,") Roon Sansome streets, Sau Fraucisco. EWER \& SMITH.

FOREIGN PATENTS OB'IAINED By application at this office, Ronm 57 Government House
EWER \& SHITH, Solicitors.

NOTICE TO INVENTORS. nventors wishing to file Caveats should apply at this
مflce, Room No. 57 , Governmenit House. Ternis moder Effce, Room No. 57, Government House. Ternis moner
EWER \& SMIT.

## PATENT RIGHTS.

Patent Rights Rought and Sold, the offce of the "Mlibing und scientife Pross" Ageney
EWER \& SMITH.

IMPORTANT TO INVENTORS. Inveator their Taventions illustrated and fieseribed jut the columns of this paper Fres of charge, they meroly furnishing the ongravings. We nre allso prepared to fui nish engravigs a reasnable rates. Thnse whin do not
cire to go to the expeuso of having eugravings prepared care tove their inventions fully noticed aud described in
can have
our columns, free of clarree. Tho free use of our

 | $\begin{array}{l}\text { public will be found a most important advantige to in } \\ \text { ntor . } \\ \text { EWER \& SMITH. }\end{array}$ |
| :--- |

## WHEELER'S

 Amalgamating and Separating PansIt is acknowtedged by all who bave examined the prin ciples and witnessed the operation of these Pams, tha they are decidedly superior for triturating and amalga mating purposes to any other in uso The mnst important principle connected with the ope
ration of these Paus is the separation of the triturating process from thit of extracting the amalgam from the
anad. Tho ehiet causc of lass of the prectous metals arianad. The chict cause of loss of the precious metals ari-
ses fom the passing off of the same in combination with
the ses from the passing off of the same in combination wit
the quicksalver, during the proces of trituration, and in
clening up clenuing up By the iutroduction of the separating Pa
to \& llow the trituration this loss is entirely avoided. I
working these inachines there is no appreciable loss Wriking these inachines there is to appreciable loss
purckilver, and hence nonc of the precious metals.

Where these pans have bcen introfuced and operate oy the side of otbers ou sauds frow the samae vat, the Wheeler pans have unifurmity gaived a large porcentage
** These Pans man be seen in daily operation, at th Hiner's Foundry, on First slreot in this city, where al aterested are iavited to call and examine for themselves
aol6-tf
ZENAS WHEFLER.

Wm, P, TAAFFEE,
importer and jobber of
Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,

## San Francisco.

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. of Web No Geo. A. metcaif.
D. S. mutciansoz

## MET ALI \& HUTOHINSON'S

 PHOTOGRAPHIC GALLERY,650 Washington st. Three doors below

Having refitted the above roums the Firm are now wephree to firnish the public with a suparior rytyle of
Picture, at a lower price than ever before offered in the

CARD PECTURES.
As we bave every faeility for producing these beanti-
ful pictures, in all their dififenent varieties, we have re-

## \$3. Per Dozen!

Large sized Phntographs $\$ 3$-Extra copies $\$ 1$ each.
AMBROTYPES in all Styles and prices.

OID PICTURES conied with care and accuray, in any style desired. Particular attention paid to pictures of | Cicture |
| :--- | Pictures painted in Oif or Water Col

India Iuk by a competent arthest.

HOTELS
International Hotel; Jackson Street, -......-San Franciboo FIRE-PROUF BRICK BUILDING. Most convenient to the
OPEN ALL NIGHT.腰 City Railroad Cars Pass the Door.

## REDCCTION IN PRICES.

Fine Bathing Rooms attached to the Barber Shop
Warm aud Cold shower Baths Free to Guests.
$T$ HOROUGELTY RENOVATED AND NEWLIY FURand Air. Each room is furnished with a first quality Patent spring bed and Hair ranttresses. The Internatlon-

左
Best Furnished Family Rooms and SETs as Good a table as nny House in the Clty,
I am determiued that the Intmpnational shall be the most comfortable, best regulated, aud in all respects su perior to any like establishment in the state, and shall aim to merit a continuance of the popular favor it has
enjoyed beretofore. It will be couducted on Temperance Principles,
F. E. WEYGANT, Proprietor.
F. E. WEYGANT, Proprietor.

## Tremont House, <br> \section*{418 and 4200 ..... Jackson street,}

A fow doors from Montgomery,] SAA FRascisco, Cast.
THIS FINE, FIRE-PROOF BUILDING OFFERS MANY
 and ubout the

The City Railroad Cars pass the Door.
The House is conducted on Temperance Principles,
FHICH SECURES TO OUR GUESTS QUIET.
The prices for board and Rnoms are vory moderateF. E. WEYGANT, Proprietor.

For the accommodntion of my many guests I have ta en and refurmshed the 1 ntemnationa so that Travelerb Fisling to put up at either house, may take the Tremons International Hotel Conch and be taleu to either Huuse with their baggage, Free.
F. F. WEYGANT.

## THE RAILROAD

 HOU SE.Nos. 46 and 48 Commercial and Clay Sts., SAN FRANCISCO.
Stiphen Smith................ Proprietor.
Tha above House is a Fire-proor bnilding, with Granste Front, and kept on the European Plan, with board and lodging by Day or Weels to suit the convenience of our atrons.
The Rooms are handsomely furmished, pplied with Patent Spring Beds, and Hair Mattrasees, affording very snperior accommodations for families or The Table is t prices to suit tue times
The Rail Road House Coach is always in attendanee at he Steamers to conver passengers and their baggage to he House Free of Charge
The House is open all night.

## P. M. S. C 0.

PAciric Mal sita road with the steamers of the Atlantic und Yacifo teamship Company at Aspinwall.

## FOR PANAMA.

The following Steamships will be dispatched in the Nox. 3d,
Nov, 13th
Steamer Golden Ago.

Nov. 23d Steamer

Will leave Fulsom Street Wharf, with Passengers and Treasure, for funama

AT 9 O'CLOCK, A. M., PONCTUALLY,
and connect, via Panama Railroad, at Aspinwall, with
teamsuijus for New York.
For Freight or paskage, apply to
A. B. FORBES, Agent,

FOCNDURIES d MACHINE SHOPS.































ALL SIZES;



C. H. HARRISON,


$$
\begin{aligned}
& \text { Phœexix Oil Woriss, } \\
& \text { ront Street, San Francisoo. }
\end{aligned}
$$













 For sale by antship Clandiers and Tradeamen, in boxe
of 50 libs eack, or by the Pacioc $\$$ fetallurgieal Works.

## 25 POUNDS FIRE-PROOF PAINT.

When used on Roofa, Buildiags, or Fencer, it is equas
to covering them with a cant of Stone, belpg perfectly
Fire Proof, and cooting less thain any pulut.
DIRECTIONS:
HodNe:- Mix three parts Mineral Paint rith one part
White lead, thia with Liused oil: if a lighter color is
White lead, thio wiuh Liused oil: if a lighter color is
Wanted, mir less paint, more lead. RUOF :- Five parte or Minerul Paint, one part white
L.eud; mix with Linseed oil. Put it thick on a tin Roof
a, one coat when properly nuplied will last three years.

wORKS, Noxth Beach; Offce, 500 Sac. ramento st., San Frameisco.

FOLNDRIES \& MACHINE SHORS.
PALMER. HANECOM \& CO.
GOLDEN STATE IRON WORKS
No. 19, Firme sirect, san Franciaco,
Furnish Castings and Machinery of all kinds A1su:
Gencing White Iron Shoes and Dres. patMer, HANSCOMB \& CO

## To Quartz Miners.

r.nox'u Improved

AMALGAMATING PAN, PALMER'S PATENT STEAM OHEST. The above combination securpe the host




The publie are hiformed that Letlers Patent have been
granted the undersigned upon steam Chest False Bot
 $\begin{array}{ll}\text { it same without his conneut. } & \text { W. A. PALSER. }\end{array}$

## Jonx P. Gallagher..................Joaspa H. Weed. <br> GALLAGHER \& WEED, <br> BRASS \& BEL工 FOUNDERY <br> LOCK FACTORY.

No. 125 First street, opposite Minna, next door to Pacigio
Foundry, all kiuds o
Brass and Composition Castings and Finishing, done with neatness and dispatch.
C HURCF AND STLAMBOAT BELXS, OF ALL SHEES in tho best manner. Bank, Yault, Store and Prison Locks, ulso brass Paulncks and Shop Locks of various
patterus, an hund and made to terd. pou Particular attention given to casting Rudder Bra-
ces amd hip Work iu cencril. All Jobs promptly attended to.-Prices moderate.

> Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom,
san franciscu.

EVERT DESCRIPTION OF IRON AND BRASS MACHI-
 Stcaun Engines and Boiers, Flour, Suw and Quartz
mill maceniury, Miuiug P'umps, Amalgamaterss, Retorts,
Particultar attention will be given to the manufacture of Machinery in sections, designed for phaces of uiffturent access, Variour mudels of Quarliz Crusturs, Anmalgama-
tors and Water Wheels-some in operatiou and on exhibition. Partion desiring to test their ores practically, in
small quantities will ve aforded ample facilities, free or amall quantities will Le aflorded ample fachities, frce
cost. All parties desiring gecurate and higlly fuished draw
ings and Superior Mactivery at mush reasonable rates
are cordisily invited to cali before contracting elsewhere are cordisily invited to cali bofore contracting elsewher
HOWLAND, ANGEL \& KING*
San Francisco, February 23, 1863.

## San Francisco Machine

## IRON WORKS!

Northeast conner Fremont and Mission Streets.

 mining purpuFe, Wine Presses, Agriculsural implements
etc, etc, and Castings of all descriptions made to order
 repairing promptly attended to.

FOR SALE.
San Franciseo, July, 1862 .

1813

FOUNDRIES \& MACHNE SHOPS.

## VULCAN IRON WORES COMIPANY

## P. Torquet, Munager, <br> STEAM ENGINE UHLDERS <br> BOILER MAKERS,

Iron Founders and General Engineers,
No 137 \& 139 First atrect, Saza Francisco.
Punning, Hoinling, Naning an vartz-cruslitug Machinary.
Stues and Dies of the hardest iron,
Kusshic irou Punched Scroens.
Steamboat Machinery: Suw, Flour und Sugar 3illh. Higb and Low l'resure Builers of all styles. Justral and other 'furbine Water Whecle with latest inprovements.

## W. T. \& J. GARRATT,

## Gity Brass and Bell Founders

## Cor. Firat \& Market sts., Snn Francisca.

$\mathrm{B}^{\text {ABBET METAI, CASTINGA, HRE FNGINES, FORCE }}$


 rauts Patent Improvecu dururail intal.

## D. MORRIS, <br> MACHINE SHOP, <br> 227 Market, corner of Beale Street. Manufacturer of <br> WARRANTED FIRE-PROOF SAFES siill Wark, of all kinds mare to order, All kinds of <br> LEWIS COFFEX AND RISDON, STEAM BUILER AND SHEET IRON The only exclusively Euiler Making Establishment on the Pactic coast Owned and conducted by Practiral Boiler Makers. All orders for Aew Work, the repuiring or Uld Work, executed as ordered, end warrinated as <br> to quality. <br> Stand, corner Bush and Mariset Streets. Opposite Uriontal Hotel, San Francisco, Cal. LEWIS COFFEY <br> 

ГHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
$\mathrm{M}^{1}$ ACHINFS, MATHEMsATICAL, Optical and Philosoph-
ical lastrumeats, scales, Weiglts, ete.; sicel ical Jostruments, scalws, Heights, ete.; Reparing of Muchnery promptly atteuded to.
No. Ald Market street, San Fxancis

HEPBURN \& PETERSON'S

## AMALGAMATOR.

## The subseribers would call ine attention of the Min.

 ing Public to thelr Reducer and Amalgamator, and alsoto their Separator for reducing and ecturating the mine to their Separatur for reducing and ecturating the mi
ral from GOLD AND SILVER ORES, manufnctured nand exhibitod at the Tulcan Tron Works,
Nos 187 and 139 First street, Sau Fraucisco. These machmes secure Lo the mivera mole Expeditions
and rearcel Reductoou aud Amalgumation, $n$ lens linbili-
 cifect in proplur tion to the power pmployed to heep them
iu operation that any uther machincs vow in use for pro.


 | $\begin{array}{c}\text { Recuction } \\ \text { ery Slope M11 } \\ \text { nove } 3 \mathrm{~m} *\end{array}$ |
| :---: |

HEPBURN \& PETERSON.

## KUSTEL \& DEETKEN'S

## IIFTALIURGICAL WORKS,

for the reduction of
SILVER AND GOLD ORES Tailings, Sulphurets, Arsenuirets, Etc., Etc.,
Cupellation and ReOning of Silver and Gold,
Pratical Assays for Silver and Gold,
Small and Large Quantities, by smelting, Clulorinatio
and Pau Mxuspulation.
Wurgs-On the Shu Bruno Road.
Ogrige-No. 605 Montgomery at, San Francisco. Mov 7 \&?


Pateit Chass.-We will furvish, on application, tho chails of uny liventive that has beenpatented withiu the tant tourteen jears. TLe hame of the fateuter-date of patem, whes known, and two dollars for copying Lurla be ocal.

Mobres--luventors will plemed attich to all models remt to us, their names and address, iu a legible, por sent to us, their names and aldresk, iu a legible, per
maileut furm, lits will avoit conlusion and provent maneut
errors.
Duswings.-We have laghly talented and emferent Praughtixmen, hy whom drawiags of every diseriptions are execured in the best atyle of arh, with prolaptitude, aud at a muderatu cust.

## WANTED

By a competent perfon, tho Secrotaryship of four Milutug Cumpaulen. Enviks to be kuph at the Ollice of the Miuling nud Sciontulac Press, No 57 Goverament Houso nquite as ubove.

## SOUTH PARK

Quartz Mill and Reduction Works, Gold and silver oris worked at reason lots. All kiuds of ores crusliud ut short nutice.
Offico in shiel's Block, opposito M. H. SMITH \& CO Co je13
W. R. Waters Secretary,

## W. W. HANSCOM,

Steam and Mechanical Engineer,
Designs furished, and Drawings made for Eagines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for MacKenzie's Patent Cupolo and Blower.

## At Golden state Iron Works,

aug x
First Strcet, San Francisco.
Eye, Ear and Throat.

## DR, DECASTRO, Oculist and Aurist,

W
 such uurivalled success, and trim ench place is in posses-
sion of the moat eminent testimonials, may now bo coulsulted upon diseuses of these delicate or gatas, with a viuw to their permalient cure. Deafiess of loog standing iho-
roughly cured. The Doctor enploys his (by the Jedical
Suelety or Loudon apuroved)

## Self-adjusting Artificial Tympanum,

 For the relet of deafnecs, attended by loss or injury ofthe menbraga tympani, and for the cure of discharge the menbrasa tympant, and for the care one invention of De Castro, M. D., author of "Deafuess l'ractucally Illustrated as to its Nature and The self-adjusting Artificisi Tympanum was first intro-
The duced to the notice of the professish at the meeting of the 1863. An aumated divenssion insued in the reading of the paper, und sevoral members of the society bore testimony io the success of the remedy and the importance of the uriginal discovery.
Mr. Buker browu (inember) bore testimony to the SelfAdjustink Artifcial I'ympanum, as be had observed the
immease brubta young lady friend of bis had received immease bruth a
fromit. She was in fiet, quite deaf, and in a mose miso
eruble state : the effect of the triopanum wras instantane eruble state; the effect of the ty topanum was instantane-
ous-nuite like a miracle. Fyve more testimonials frum ous-quite like a miracle. Fuve more testimonials frum
Members of the Bectical College, New York, and the prinacipal cities of Lurnpe.
Operating Rooms, UNION BLOCK, curner of BEarket and Keariy streets. Entrance on Market street.
טy Mr. Fiditor-Having been afficted with deafiess for the last two years, originating from $\quad$
severe cold, nud for the last month suffering from the most excrutiating paius in ny ear, I was wblyed to come
down to san Francisco to seek relief. After a physicran's recomendalion to wait on Dr. De Castro, on the coruer of Kearny und Market streets, and underwent one operation, and it is with the utmost pleasure 1 can say my hearing
was suddenly and withnot pala entirely restored. I deem Was suddenly and withnot paiq entirely restored. I deem.
it my duty to make this keown to the bublic, and to recommend Di. De Castro's skil as an aurist.
JOHN REESE, Napa Vally
Jamos Callaghan, witwess,
San Erancisco, July 30 th, 1863.
James Callaghan, witwess,
San Francisco, July $30 \mathrm{th}, 1863$.
[From the Daily Alta.]
Ed'rs DAnty Alta:
san Francisco, June 30th., 1863
Perinit me through your widnly circulated journal, to Say, that my daughter shary Elen, has thirten montho old, and that she hay beev a member of the Deal and Jumb rastitute since it was orgnaized. On taking her to Dr, De Castro, on the
eorner of Kariney and Market Sureets, and undergoing un corner of Kearney and Market Sureets, and undergoing un
der his dircutinn, two opperations, she has beard sound
very distuculy: and is now, 1 am happy testate in a fai very distincly, anent retief. The result, thus far, is sat
wny to get permanet pud ileem this notice due to Dr. De Castro fo
stactory ; aud his skili; and woulu recommend anf parties semiliarly at ficted in give him a trial iny daughter has at differen:
limes been under the care of the moat Akilful pliysician, aud aurists in Culifurnia, but up to the period of visitin
Dr. De Castio, recoived no benefit.
GHAS JOHN P. WRIGRT,


$$
\begin{aligned}
& y \\
& \hline
\end{aligned}
$$









[^14]










8 MINING AND SCIENTIFIC PRISS.


W. B. EWER, EDITOR.

## V()L. VII. SAN FRANCISCO, MONDAY EVENING, DECEMBER 7. 1863. <br> NO. 6.

NOTICE.
The publlention of the Binmo and Sctemima Pabse will herenfter bu oondmeted by the firm of Dew EY de CO. C. W. M, Smitu, W, B FukR,
San Frapciseo, Dec. 18t., 1863.

## TERMS OF SUBSCIPTIONS.

Upan ealargiog our sbeet, we have determined to adhere stearily to the advance poyment for subscriptions, aud shall make ouly n slight advam ous ald pricen. Our rates, hereafter, will be at follows:--For one year, so sirmonths s3. By city carrint: 50 ennts per month.

## OUR NEW ARRANGEMENTS.

By special notice it will be obserred we have associated with us in the publication of the Press, Mr. A. T. Dewey, of La Parte, Sierra county, who has been connocted with the Mountain Messenger, as publisher, for the past five years. We shall now be enabled to carry out out long cherished plan of enlarging the paper, and the friends of mining and mechanical industry may rest assured of soon receiving a jonrnal in every way worthy of their representation and universal support.

## MINES AT SALT LAKE.

The Union Vedelte, the "Soldiers paper," published at Camp Drum, Salt Lake, contains the following account of recent mineral discoveries in Utah:-
Evidences of the vast wealth concealed in the mountain ranges of this Territory accumulate daily. In the Wasacth on the east, and in the Oqurrh or West Mountain range, silver, copper and lead have been discovered. In Bingham Cañon, in the latter range, ledges of silver and copper are now being worked, and before Spring, both raints and soldiers will be amazed at the rich developments. On the west, at Deep Creek, at Antelope Springs, at Egan Cañon and Ruluy Valley, ledges of silver equal to Reese River and Washoo have been discovered, prospected, and some are being worked. On the north, at Butte Creek, placer gold mines are paying the Morrisites richly, and at Hickman's Butte a whole mountain of cinnabar has been discuvered and will be worked in the Spring. Still further north, on the Snake River and the Blackfoot, gold digg ngs equal to the Boise and Bannock have been worked all Summer. In fact the whole Territory is one vast deposit of rich minerals, only awaiting industry and intelligence to develop it.

Taxing the Mines.-C. L. Strong, Esq., Superintendent of the Gould \& Curry claim, was before the County Board of Equalization to-day for the purpose of having the taxes of that claim equalized. The Board bad assessed the improvements on the claim at eight hundred thousaud d ilars, but Mr: Strong infromed them that they might tax it three hundred thousand more, and the company would be satisfied, which they did-so this one claim is assessed at upward of a mil lion of dollars; and yet there are mev in this 'Territory who insist that the mines do not bear any portion of the burdens of taxation. One such fact is worth a million of shaliow sophistical arguments, whether they eminate from judge, lawyer or loafer.--Virginia City Bulletin, Nov. 30.

The ship Lizzie Moses, for New York, takes 200 tons of Napoleon Copper ore.

San Franelson Twenty-one Years Ago.-A. G. Toomes, Below the Arlantic. -Soundings ith the Atlantic have of Elder Creek, says the Cell, who lived in this city during been particularly pushed forward, and have excited, on acmost of the Summer of 1842, fumishes the Red Bluff Bea. count of the telegraph cable, more general interest tham any con with the names of the pupulation of Yerba Buena (now other yet taken. They have revealed the fact that two hutSan Francisco) at the time. They are:
dred and thirty miles from the roast of Ireland the water
William Ray and wife, of the Hudson Bay Co., and three is still shallow; or in other words, that there is another Ireemployees; N. Spear and wife; Onptain Hickley; Mr. Davis, land only waiting to be raised-thus reversing the famulus a blacksmith; Robert Davis; Dapel Still; Mr. Viogel; Peter panacea for keeping the country quiet. It is just beyond this Sterreback; J. Fuller, wife and three children; Messrs. Teal that the true Atlantic begins; the gulf suddenly sinks to \& Titcomb; Mr. Limantour; Mrs. Inıa Briones and daughter; nine thousand feet. "Thus Ireland may one day have a coast Mr. Rock; Juan Padillo; R. H. Thomas, and A. G. Toomes. Iine as high as the Alps. The whole floor of the Atlantic is The number of buildings was thirteen.

What a change! In twenty-one years the little hamlet of consisting of very minute animals. many of them mere iump twenty-seven souls and thirteen buildings, has grown to a of jelly, and thousands of which could float with ease in a city of ome hundred thousand people and thirteen thousand drop of mater; some résenbling toothed wheels; others, buildings. Of the inhabitants that were here in 1842 , we only bundles of spines or threads shooting from a little globule. know of six now in existence, viz: Robert Davis, at Hono- Some, however, are endowed with property of separating flint lulu; Limantour, in Mexico; Mrs. Fuller and two of her from the sea water-which is more than every chemist could children, in this city, and Mr. Toomes, of Elder Creek.

Who are the Happy?-Lord Byron said: "The mehanic and working men who can maintain their families, are, in my opinion, the happiest body of men. Poverty is wretchedness, but even poverty is, perhaps, to be preferred to the heartless, unmeaning dissipation of the higher orders." Another authority says: "I have no propensity to envy any, and, least of all the rich and great; but if I were disposed to this weakness, the subject of my envy would be a healthy young man, in full possession of his streugth and facnlties, going forth in a morning to work for his wife and children or bringing them home his wages at night."

Calitoria Rozen for tue East.-This new article of California export, says the Evening Journal, appears to be assuming quite a prominent stand among the products of the State. The bundred barrels for New York by the William Cummings is the second shipment, and the difference between the cost here and the price in the East promise the shippers a handsome profit. California rosin costs at home $\$ 15$ per barrel; the price it brings in New York is $\$ 45$ per barrel. The resources of this State for naval stores add an additional importance to her relationship with the Govern ment during the existence of the war.

An Incidentar Good.-A Boston paper says that if Exchange will only hold good at the present high figures for a few moaths, we shall manufacture many articles which we now import. A gentlenad in New York has recently imported twelve French families from Lyons, who are -killed in the manufacture of velvets, with the intention of starting a man ufactory of first-class velvet in this country. The Waltham Watch Manufactory has made us independent of Genera and the Portsmouth Mills will soon enable us to do without Coates \& Taylor.

Irish Moss has been frund growing abundantly on the ocks along the beach in .Scituate, Mass., and about three thousund barrels are gathered manually. It is worth at first hande from five to six dollars per barrel,
do; and there are hundreds of square miles covered with the skeletons of these little creatures. Part of the ooze is doubtless from the clouds of rain-dust which rise from the vast steppes of South America in such masses as to darken the sun, and make the animals fy to shelter, and which, after sweeping like a simoon over the country, lose themselves in the 'steep Atlantic.' No bone have been found of the large , animals,. so that the kraken and sea serpent might sleep their last sleep, and leave not a bone or a vertebra to tell the tale. Not a mast or anchor, not a block or stran, not a coin or a keepsake, has been found to testify of the countless gallant men, who have gone down amid the pitiless waves.-All the Year Round.
Tae First Sawmill.-The old practice of making boards was to split up the logs with wedges; and, inconvenient as the practice was, is was no easy matter to persuade the world that the thing could be done in a better way. Sawmills were used in Europe in the fifteenth century: but as lately as 1855 an English embassador, having seen a sawmill in France, thought it a novelty wbich deserved a particular description. It is amusing to see how the aversion to labor saving machinery has alwayis agitated England. The first sawmill was established by a Dutchman, in the year 1663, but the public outcry against the newfangled machine was so violent that the proprietor was forced to decamp with more expedition than ever did Dutchman before. The evil was thus kept out of England for several years, or rather generations; but in 1693 an unlucky timber merchant hoping that after so long a time the public would be less watchful of its interests, made a rach attempt to construct another mill. The guardians of the public welfare, however, were on the alert and pulled the mill to pieces.

The effects of narcotic poisons seems to be destroyed by pouring cold water on the face and head. A girl, accidently poisoned in England with laudanum, had had all the usual remedies administered without effect; when cold water was applied, however, she breathed more easily and bled from the nose. The treatment with water being suspended, she relapsed into cous; being resumed she again rallied and in 60 hours was completely recovered

## [From our Traveling Correspoudent.] COPPEROPOLIS.

Mr. Editor:--I am happy to state that our exertions to bring this rich country into proper notice, and raise it to its legitimate rank, are meeting with success, as well as giving satisfaction. I am daily in receipt of letters from the Bay and country congratulating me upon the manner in which I have carried out your instructions. While this is the case, I shall be content to fulfil my mission to the end, though involving considerable labor, expenses, and inconvenience. I am also happy to state that Mr. Handy of San Francisco is now following me, taking a survey of the mines, with a view to publish a map of the copper district, which will be of immense value to the public. Mr. H. is the surveyor of the Stockton Railroad to Copperopolis via Kuight's ferry, the importance and neer ssity of which I shall have to speak more fully hereafter. He has politely requested to make use of my letters, which I readily granted, feeling assured of your compliance.

In my last letter I stated the mines north of Copperopolis were so numerous and far apart that I was obliged, at that time, to confine myself to those around Campo Seco. We must start once more, therefore, from Copperopolis, north of Salt Spring Valley, commencing with the Keystone.
Whether this name was given to the mine by accident or design I cannot tell. It is, nevertheless, peculiarly appropriate, for without doubt, it is the keystone of the most magnificent and imcomparable, copper discovery in the world, fabulous alike in richness, extent, and permanency. When, in Cornwall, the Stephenson Consolidated lode stood developed for seven miles. It ranked for years the copper wouder of the world, paling its grandeur only to the dawning genius of Australia with her Burva Burra and Capunda, and now how absolutely insignificent are both of these systems? Here today, in a country unequalled for climate, scenery, facility of transit, and every other attribute of human happiness and success, stands the old Keystone, the centre of a copper system, reliably developed north and south from Mariposa to Nevada, one hundred and ninety-five miles, and embracing its parallels for twenty-five miles wide. One hundred years hence, and what mind can foreshadow its effects upon the elevation of the State and nation? And when this glorious valley, with its grand, broad, level sweep, from the Stanislaus to the Mokelumne, thence to Ione and the Cosumnes, is a mighty net-work of great cities, and private villas, what a histronic spot the Keystone will be! May we not suppose that the people of that day will trace upon some old bronze monument, made from its own ore, which will no doubt then raise its head to heaven, the names of Read, McCarthy, Ryen, Mendeville, Aitkin, Powning, and in memory of the orignal discoverers of this, even now famous lead?
Some may think, perhaps, this is an exagerated introduction. Before I get through I shall show it is not. I am a great believer in copper, and I am still a greater believer in this particular system. Let us see if I am right, and the Keystone worthy the reputation I have given it. The claim contains 3,300 feet, divided into 3,300 shares. There are three shafts respectively 320,50 and 150 feet deep. Through the myateries of these I was politely piloted by Mr. Richard Powning, or Capt. Dick, as he is familiarly called. I shall begin with the upper or north shaft, 320 feet. In this there are seven drifts running in opposite lines, with every other requisite for convenience and expedition in work. The lead in the bottom drifts, running in 40 feet, is nine feet wide; containing three feet No. 1 ore, six feet No. 2; the latter averaging over 12 per cent. The next level above, at the depth of 200 feet, drifts and ores about the same. The next level, with longer drifts, shows the vein ten feet wide; six inches No. 1, the balance, No. 2 ore, having already beeu taken out. In these upper levels there are thousauds of tons of No. 2 ore, hitherto neglected, but which being concentrated, in the new works now on the eve of completion, will alone be a fortune to the company. This shaft is 500 feet below the northern line, where it joins the Consolidated. Some 2,000 feet down towards town stands the old discovery shaft, 50 feet deep, with a drift 40 feet long, Here the vein is nine feet wide, 2 f fet of No. 1 , aud 7 ft . of No. 2 ore. Then 500 feet lower down again, 17 feet off the Union line, is the third main shaft, 160 feet deep, with two drifts, eleven feet each. Here the vein, at the bottom, is 12 feet wide;
four feet No. 1, eight feet No. 2 ore. On the next level, 50 feet above, the side drift 150 feetlong shows the vein two feet wide, equally divided into No. L and No. 2 ores. The opposite drift runs into the side claim east, called the Inimitable, leaving an 18 feet horse between the two leads, and shows that veiu 13 feet wide all N N .2 ore, but averaging 15 per cent. This runs 20 feet on the vein. On the next level, 50 feet higher, a dritt runs 15 feet on the vein, showing pretty much the same results, In this shaft there are also thousands of tons of No. 2 ore ready for stopeing the moment the conceutration works get under weigh. There are also some other "prospecting shafts" down in different parts of the claim, disclosing equally tavorable results, but which would be tedious and unneeessary to particularize.
The concentration works, on the eve of completion, (being expected to start next Saturday) form a very distinguishing feature of the Keystone. They are, I believe, the first of the kind in America, certainly in California, and throughout are of the most substantial and first-class character, reflecting the highest credit on all concerned. They stand about 1,800 feet from the uppermost or northern shaft, from which a rail is laid to bring the ore down to them. In machinery they embrace every modern compliance and improvement. 'The entire building is 200 feet long, 30 feet wide, and gives an immense business appearance to the town. The engine is 40 . horse power, of Donahue \& Co's?lbest style. Of its effectiveness you may judge, when it is intended to pump from two shafts, hoist from another, run five jiggers, and all the various machinery connected with the entire works, It is true these works involve a large expense; but then, we must remember, besides the immense outside time and labor they will save the company, by reducing all the No. 2 ore, and freeing it from every particle of refuse rock, they raise the value of every ton of that ore from 12 to 18 or 20 per cent. After a careful examination, I rate the capacity of the Keystone at 550 tons per month.
I cannot close this account without paying Capt. Dick a tribute of praise he deserves for putting the mine in its present auspicious condition. He has unquestionably a thorough knowledge of copper mining in all its branches. If the company will only be patient, leave him alone, and let him stope up his ground clean as he goes, they will not rogret it, when the ensuing year closes upon them. It is only just to say that Capt. Dick has lately also done equally good work on the Caleveras claim. Next in succession, proceeding up the valley, comes the

## consolidated.

This claim contains 1,800 feet divided into 1,800 shares. It adjoins the Keystone, being located at the same time, and is apertension of it. It contains three shafts, respectively of 18,70 and 40 feet. It is, however, by no means developed, though presenting many favorable indications. In the 70 feet shaft, there is the strongest body of mundic I have yet seen. I confess my patriality to mundic, and think that copper will be struck sooner in this shaft, than in the one of 40 feet, where the blue slate is strangely impregnated with yellow sulphurets. Work is suspended until next Spring, when machinery will be put up. Next comes the

```
great western.
```

This is also an original location, containing somewhere abnut 1,800 feet, divided into 13 shares. This claim lies idle, I understand, from want of capital, no other work being done than what is necessary to representit. Following this c!aim are several others, which, as they are simply locations, and in the same condition, it will only be necessary to mention. They are the Salt Spring Valley, the Masonic, and the Jefferson. From here, some distance up the valley, it will be very difficult to locate the lead. The best advice I have heard given, is tbat of the Cornishman, who suggested the propriety of sinking 500 feet, and then drift north, south, east and west. I think it likely the lead might be struck under those circumstances.
We are now supposed to be some three miles from the Keystone, when we leave the valley to the left, and going up the Bear Mountain range some half mile, or more, reach the croceett.
This is quite a celebrated claim, opening beautifully, with an established vein of splendid ore. It is a distinct vein going to the east side of Bear Mountain from Copperopolis town. It contains 3,150 feet, and is incorporated. The mine is now fized up for permanent work, and will develop
itself rapidly, A short distance from the Crockett, bearin $g$ east of south, is the
bear mountain.
This claim is still undeveloped, and suspended for a time. It is on the same lead as the Crockett. It coutains 3,000 feet, divided into 20 shares. Work to be recommenced in the Spring. Passing on in an almost easterly course over the hills we come to the

This is also a celebrated mine, but has fluctuated up and down more, perhaps, than any other in the district. It is not on the Crockett, but runs east of it. Occasionally excellent ore was taken out, but nothing permanent. It was originally called Beauregard; the two are now consolidated. The claim contuins 3,250 feet, divided into 200 shares. It unquestionably opens in beautiful style, carrying carbonates and oxides from the top, with rell developed walls, at one time 20 feet apart, but now compressed to 9 feet. There is considerable gossan on the surface, quite auriferous. The rock, however, is still heavy, and corrupt, carrying copper and sulphates of zinc certainly; some say silver; of the latter I am no judge. At the request of Mr. Garrard, the Supt., I spent half a day with him here and at last found a vein of better ore than they have ever had, about a foot thick. This was in the side drift. Twenty-five feet more put on the shaft, I feel certain, will open a three feet vain. I beg to acknowledge the polite attentions of Mr. Garrard's family, and hope for their sake the Antelope will come out right. I think there is no fear of its not doing so in the end.

I must now take jou, at least six or seven miles along the Angel's Canp round, to within sight of Altaville, to clains I visited on my arrival here, but which I could not notice before without confusion. I hope the Colnor boys will accept this appology for it is the fact. Turning into the woods some distance bejond Hiuckle's ranch, are three claims, though I cannot pretend to locate the system they are on. The first is the

## еmamett.

"This claim contains, 2,200 feet, divided into 11 shares:' The main shaft was down 50 feet thea, now I suppose considerably more. The rock carried iron largely, but sufficient copper to make it goad ultimately. Our lucky friend Elinore is concerned in this claim, so it is sure to turn out well. I hope so. Adjoining the Emmett is the extension

## rising star.

This claim contains 3,200 feet, divided into 16 shares. They are not doing much until the Emmett gets down. This claim, however, lying as it does between the Emmett and Colnor, I think it must be a safe thing. Next and last iu this direction is the
colnor.
I find my notes have become somewhat obscure, but I think the claim contains 3,200 feet divided into 16 shares. The old shaft had to be abandoned as it dipped to much in the hill to be workable. The new shaft, very well put down, through immensely hard rock, must now be down about 100 feet. This is the claim I meationed in my first letter of the Stockton Fair, as having such splendid specimens there. The rock in its formation is very pure. I should like to see this mine agaiu if possible, and as I go to Angels to see about your own claim there, I shall endeavor to give the boys a call. I have great faith in the Colnor.
L. H.
A. London professor lectureả recently on adulterations of food. He handed around coffee, which was pronounced excellent, then told the audience that they had been regaled with a mixture of bullock's blood and, chicory, sheep's liver, dried and old coffee grounds. He gave them capital porter too, made of spirits of wine, gum arabic and burat sugar.
Dried Ur.-The Rocky Monntain News says: The Platte is not the only stream that has entirely failed this season. The Arkansas is entirely dry for two or three hundred miles. The Huerfano, and other large tributaries coming into the Arkansas from the South, are also dry. We presume that Red River, and other streams of the South, are in the same condition. In Utah, and further North, water has never before been so scarce sioce the country was known.

Some idea may be formed of the tremendous effects of the powder magazine explosion at the foot of Seventy-ninth street, N. Y., from the fact that a steamboat traveled all the way to New Haven on the Sound

Macinamary for Owes's Rrier.-Four or five teans, heavily louded with quartz mill machinery, (sitys tho Rismerakla Times, of Nuvember 2ith.) itestined for Owen's liver country, frassed, through tuwn this morning. Public attention is rapldly turuing to the above section, and a big rush will bo made there in the spring. Parties are going from here nearly every day. The confidence shown in those sending down machinery for mills is not without cause. That section is undoubtedly rich in both mineral and agricultural wealth.
-It is found by investigation that the number of men who have been actually killed in this war dues not fall shurt of half a million.
G. E. MOORE,

Assayer and Analytical Chemist,
No. 61's Sacramento steet.



Rextrences
Prot. 3 D. Whitney, Stato Geuloglst, San Francisco. Alsop \& © , Sul Frameseo.
Suther \& Chirch, San Futucisco.
John Parrolt, sin Francl
D. O. Mills, Macramento.
sep14

## ASSAYS!

Promptness and Acouracy Secured
By the Use of the Most Maproved Metriods of
A NALYSIS
Advantageous Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHILL, M. $\boldsymbol{A}_{1,}$ (FRos Evroop.) 24 Gowrnment Block, corner of Sansome ant "HINTA FOR HROSPECTURS" Free by Post

RIEHN, HEMME \& CO.,
ASSAYERS.
Offioe, Montgomery street, cor, of California oppusite welis, margo is co.
Assays Made of ores, MIinerals and Metals.
referrbd witr persinsoon to
 CTas. F. RIEFN, lite U. S, Branch Mint, gives Ifeasnns in Asseylag, atso in Sineralogy and Chemistry as dur as re
Quired to become a practical Assayer.

AGENTS WANTED.
Wo want 2 grood Agent in every clys, rown and scttle-
ment, on this Coast. Appleants will send their oamps with, reforence, when gpecimen numbers of the Min-
ing \& Scientific Press wit be forwarded to them,

 HATTERS
Montgomery st., cor. of Comméreial, San Francisco.
To OUR FRIENDS AND THE PUBLIC GENERALLY Fishra\& Co., in tbis city, we shail, on the list duy of HAT EMPORIUM,
oo long conducted by that firm.
Mr . Wirusum E . Mrisd, for the lant seven yeara Salesman witb sesss. Fisher \& Co, respectilly golicits a con upon the old House, fealing entire confdence in our aubl-
Mr. Theonore Van Tasseir, for eight yeata witb
Messrs Le Gry \& Co., would be pleased to eeo bis friends at his now place of business.
The lone practical oxperiede of Messrs Mead \& Van Tassell in the Trade justifies them in saving that thelr
work cannur be excelle, oither in finish or durability.


## French and American Manupacture.

Our Stnck now on hand is superb.
Call and examine, and judge of the merits of our claim Respectruly

## THE

BRYAN BATTERY.

Thin rast interest Invalred in the reduction of area on


 Stanp Bittery

## ALONE STANDING THE TEST.

Thit, with the Improvements which Experienco has suggestmi, is uuw regarded, by cummon collseat, us the

## METHOD OF CRUSHING ORE.

Tare bryan Ratyery, as now constructed, is bnlieved to combine all the improvements which th
of the past has afforded. They bavo bean

## EXCLUSIVELY ADOPTED

by many of the mast prominent Maning Compabies in the country, and have been, for the three paat yeark, aub-
jected tin tho howl sevare of all teste-that of coustant jected th the insw acvare of sil teste-that of
unc-and in every cise have been pronounced

Effective, Substantial and Reliable.
They are now extenatvely used throughout the
minernirecions of California, Nevada and Mexien, and minerai regions of California, Nevada and Mexien, and
have astablished a claim to public confileuce, uever yet equalled in any piece of mining machinery.

These Mills are constructed nlmost entirely of Iron and, consequently, are not affectel by the intense hea and drynesh of a

BOTH WET AND DRY CRUSHING,
and are warranted in reduce, with the same weight of Stampa, 25 ner cent, morc rock than any other mill in use. Fach Battery is complete in itself, and forms a
perfect mill-while any number of them can bo added at a suliceqent time--11
uniformity of the Mil!
As an evidence of the increasing favor with which Clebratod are regarden, we wnild mention that the their works ia 1880, and bave been adding a number of Batteries, each sulsequent year, until
Niteteen, ruuning Seventy-bix Stamps

They are perfectly fitted and get up at our Works, be-
ore shipping, ench pieco being marked and numbered, o that they ena be put up rad set at work in ten hours zea, four and five Stample cach. The Four Stamp
Baticry weiching complete abnut 6.000 pounds Batcry Wive Stang aloupl 7.000. The Mortar Bed ueing
and the Fill
cast in sections, when desired, sn that the mills can be packed over any mountasi road.

We annex the nnmes of few woll known Companies Who have sdnpted them-rubning from frur to seventy-

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co. Esmeralda, Crown Point Co., Gold Hill, Potosi Mining Co., Virginia City, Tajo Mining Cu. ${ }^{\text {C }}$ Mexico, Sheba Mining Co., Humboltd. Lotta Mills Co., Coso.
American \& Mexican Co., Mexico, San Carlos Minine Co.., Owen's River,
Union Quartz Co., Aurora,
Trianfo Mining Co., Mexico,
Napn Quartz Co., Aurora,
Petaluma Quartz Co., Gold Hill,
Francis Mellus \& Co., Slate Range, W. R. Churchill \& On., Mexico, Willow Springs Co., Coso, Hews, Howe \& Co.. Rich Gulch Flat, F. A. Benjamin \& Co., Mexico, O. J. Parker \& Co., Nicaragma, Gibhons \& Clayton, Esmeralda, Smith \& Clouser, S. F. Reduction Works Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLY BY
GODDARD \& CO.,
At the Pacific Iron Works. san francisco.
os 195 to 136 First street, and 126 to 144

## MINLNG \& SCIENTIFIC PRESS.

THE ONLIMINYNG, MECFANICAL AND
SCXENTIFIC PAPER ON THIS
CONTINENT.
THIRD YEARE


The Inventor !
excellont medium for the purpose of
bringlug his invontion into notwee, of nscertaining that progress of invention in this and other countries, and
also of recciving any iuformatima that may bo neces also of receiving any iuformation that may bo neces.
aury in nbtaing his patcut, the preprictors linving had great experimace as Pateut Agents, together with facil.
ities at Washing on that enabie them to olatain Pateate with dispatch.

The Mechanic and Manufacturer ! Will bo greatly benefitted by its perusul, as its columus will irom time to tim contan original engrav-
ings of new machines and inventions, ingether with a large amount of roading matter appertaining theretn. nals from all quarters, from which we shall continu to extract whatever may be of benefit or intercst

## The Mining Interest I

Will fud it of great ralue, ns it will contain all the news aupertainge to Mining, the pricees und sales of Mi
ning Stocks, new in rentions of Machinery aditpted to tia purpose, and of evorything generally that may be of se

To Chemists, Architects and Millwrights.
This journal will be invaluable. All new discoverios in Chemistry will be given, andl a large amount of infor
mation of great service to Architecta and dillwrigut mation of great service to Arclititects and dillwrigbts
will be found in our columns. The Farmors and Plan ters will not be vegiectel, engravings will be given of agricultural implements, and the
erally will be amply discussed.

## Terms.

To mall subserlbers:-Four Dollars po
Five Copies for Six Months, $\$ 8$.
Ten Conies for Six Montha, 816 .
Names cau be sent in at different ilmes and from differcat Post-ofices. Specimencopies will bo sont gratis to any part of the country.

EWER \& SMITH, Publishers, Room 57, Government House, Corver of Washingte

## I. C. E. KLEPZIG \& CO.,

## GUN MAKERS,

 Dealers in gun matertals, ${ }^{7} 33$ Washington street, San Francisco [Ono Door above Kearnoy street.]Repalicing done in a workmanlise manner at the slor st nontice, and also Silver Platiog, by E. Ekland. je21
Gillige, and

LEANDER RANSOM, Civil Engineer AND

## SURVEXOR

Having been connected with the public worls of the State of Ohio for 20 years, aud the pub
survers of the State of California for 7 years. surveys of the State of California for 7 years.

ALSO
STATE LOCATING AGENT.
And as such having the salo of
600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cont in eash and the balanc n a crent of several years,
OFFICE, 328 Montgomery streets.

## D. NORCROSS,

Masonte Temple, No. 6, Post street.
Military Gcods of all Descriptions.'
Navy Trimmings and Embroideries.

OPPOSITION
Steamship Line!

GRRAT REDCCTION IN RATES !
Thio Fnst and Favorito Duule Eugine Steamphilp,
MOSES TAYTOR,
J. H. Bletben............... Comanander

Will be dispatdh for PANAMA
From Mission street Wharf.
From Mission street Wharf.
WEDNESDAX, - DECEMBER $23,1863$. Punctually at 90 oclock, A. M. , on
Connectlog re Anpinwalt, by the Panama Railroad, wita
splemid steamship
illinois . . . ....... 2500 Tons.
The Moses Thylor, sluce her leat itip has updergone the mont extensive repaira. Her decks have been ex-
tended furward and aft ; cabing cularged, rellted and
rennint shat upniutcd throughout-makiog ler accomodationa equal
For furiher information or Paseage, apply to
No. 407 Washington Street, K. RUBERTS, Agent,
Sall Francike,
Opposto the Post Office.
BOOK KEEPING, Penmanship
OOMMEROIAL OALOULATIONS, Taught by J. S. LUTY
PRACTICAL ACCOUNTANT,
305 Montgomery Street, Corner of Pine.
TO QUARTZ MINERS,


#### Abstract

Al persons interested in Mining ira Acbiuery are myited to callat Dounhue' Foundry abd axamine nyy improved Amaigamator. It is unquestion Silver and Gold. It works 1000 prunds at a time, and will amalgumate over three tolns a day. By the molion or the revolving mulldr, the pulp is drawn through its or the revolving mulldr, the pulp 18 drawn through its centro add passes under it, between the grinding surcentro and passes ubder it, between the grinding sur facce, to the circumference; from whence it passes again tweon the grinding surface to the circumference as before. Thus a coostant circulation of the pulp is kept up, bringing the particles of ore again and again under the bringing the particles of ore again and again under the muller, and reducing the whoie mass to an impalpable muller, an powder, Noquicksilver lies betseen the surfaces to be ground but at the circumference and centre of th" pan where the aretal must pass through it as the pulp circulates. A natent was granted for this Amalgamator in A patent whe granted for this Amalgnmator in De cember last, and all persons are again warned aganost purchasing machines made at the Mincrs' Foundry called "Wheler's Amalgamator'" as they are an infringensent on my pateut, and a suit is now pendiug In the U. S, Cir cuit Court aganst the parties infringing. My Amalgamators can be seen ruving at Donahue's Foundry, where all can judge of their operntion and the very superior all can juige of their operntion and the very superio style in which they are boing manufactured THOMAS VARNEY.


## PATRONIZE home manufacturies!!!

James Longshore, Trunk and Valise Manufacturer, 30\% Sansome Sreet, under Tehama Houke. Trunks and
Valises, Wholesuleand Rotril, Fine Solo Lenther Trunks, Valises, Wholesuleand Retril, Fine Sole Lentber 'Trunks,
Valises, and a fie assortment of LadIES' TRUNKS conValises, and a fine assortment of LadiES' TRUN.
staully ou hand. Truaks covered and ropaired.

## APARTMENTS.

F CRNISAED APARTMETNS, WITH, OR WITHOUT Washington street. Per*ous desirous of a respectabe
home will do well to apply.

## FOR SALE.

Patent pressed russia iron mining pang,
Russia Iron Quartz Scroens for Millls;
ortable Forges; Cauldron Kettles
Pumps, both Frame and Lif
Wrought trou Pipe;
Biob Cocks; Couplingn ; Play Pipe
Cooking Stoves and Heating Stoves
Tin Pinte: Shpet Iron; Sheet Copper
Lard and Butter Cans of all Sizen :
Iron Wire; Brass Wire ; Copper Wire
Copper Rivets and Burrs ; Iroa Rivets; Ete.
We are also manufacturers of the
UNEQUALLED
MONITOR COOKING STOVE
Or RAN H,
For Hoters.

THE DEBT AND RESOURCES OF THE UNITED
The Banker's Mragazine for October last, contains a care fully written article upon "The Debt and Resources of the United States," and introducing therein a comparative statement of the credit of Great Britian and the Federal Government, in their respective tinees of trial. We condense as follows :

The normal prices of the British 3 per cents being 93, and standing always above 89 from 1730 to 1745 , they fell during the Scotch rebellion of 1545 , to 76 ; at the close of the American war ( 1781 ) to 54 ; in 1797 to 473 ; and in 1854 (Crimean war) to $85^{1} 8$.
The United States 6 per cent. 20 year coupon bonds were at 89 to 92 in Septenuber, 1861 ; in April, 1862, rose to 98 ; in Juue to $105^{1}$; fluctuated between July and December, from par to 104 ; and from January, 1863, to A pril, varied from 90 to 1061 .
The price of gold in the respective markets presents the following relative ranges
In the English market gold was above 25 per cent. premium for three years from 1811 ; for two of those years above 33 per cent; one jear and a guarter abore 36 , and at 411 , from November, 1812, to March. 1863.
At New York, fire months aiter the suspension of specie paywents. gold was at 4 per cent. premium; during three and a half months, from 3d July to 2uth October, 1862 , it was under 30 ; for two months after, above 33 ; from 1 st of
January, 1863 , to $3 d$ of March, fluttering from $331 / 2$ to $721 / 2$; January, 1863 , to suich it went down to 45 on the Ist of June.
This history, considered with reference to the respective conditions of the two nations, is all in favor of the Federal Government: A comparison of our present credit with that of our own Government in former exigencies, is even more sarprising. The loans of 1799 and 1800 were sold at a discount of 17.20 per cent; those of 1813 at 12 and 11.75 those of Mareb, 1814, at 18.86; and the total of the discounted loaus 1799 to 4th March, 1861, at an average divcount of 12.55 per cent; while the total of the present secretary's loans sold under par, calculated. upon the par of 6 per cents., fall to 5.9 per cent. average discount. On a full review of all the facts, are we not saie in saying that in the very midst of this hurricane of civil war, our Treasury is in smouth water?

## dnted states currency.

As in case our National Debt, we wre best able to grasp and understand the question of our currency, by comparing its present condition with that of the curresponding periods of English history-a history tbat worked itself int, issues so well understood that re may readily see the facts of our own case, and forecast the results by the light thus affurded to us.
The figures that did the service of reducing Joln Bull to
despair in 1815 , stood thus, according to Mr. Lloyd, who is despair in 1815 , stood thus, according to Mr. Lloyd, who is received as the best authority in this branch of statistics:
Bank of England notes and local bank circalation of the three Kingdoms: $\$ 004,000,000$; Exchequer Bills, $\$ 202$, , 000,000 ; Postal Circulation, $\$ 706,000,000$.
This amount, at the then population of Great Britian, gave an average of $\$ 37.16$ per capita.
When the wealth of England was but $\$ 10,400,000,000$, the circulation was four times greater than in 1844-51, when the wealth was more than double that of 1815, or in relative amount; full eight times greater. Here was abundant opportunity, and no slight apparent warrant, fo an outcry. pensès and subsidies paid slbroad. Bonaparte held the opinion that sle must succumb when reduced to an utterly redemptionless note currency. The opponents of the government, the bullion-heads, and the whole body of alarmists and despondents held the same doctrine.
The famous Bullion of the House of Commons sustained it ; arguing as ably as the best of our Democrats, for a cash, and against a credit, circulation; and recommending ai instant return to cash payments, without regard to consequences, or any respect to impossibilities.
Now, let us see how our greenbacks and other currency compare-not with the assiguals, nor eren with the "Continental money", of our Revolution, but with "the depreciated and depreciating" Bank of England notes, every dollar of which was at their par of gold, three years after they were at their worst.

## the bank note circulation of the dnited states.

The bank note circulation of the United States, from 1852 to 1859 , eight years, averaged $146,000,000$, making $\$ 906$ per capita. On the 1st of May, 1863, the bank circulation of the loyal States (assumed to be the sam - as in December last) was $\$ 168,400,000$; the United States notes and fractional currency $\$ 394,920,950^{\circ}$. To these add one year of indebtedness, which may be taken to correspond, in the way of circulation, to the Exchequer bills of England, which amount to $\$ 142,750,000$-a grand total of $\$: 06,070,956$.
Thus it appears that our total circulation, in 1853 , is exactly equal to that of Eigland in 1815-our wealth threetenths greater, and onr per cayitra circulation more than onefith lessio Moreorer, their circulation quadrupled their ofro average of a muchlater date; ours slightly more than trebles our average of a period of three yeare gone.

Our inflated currency, so lar as th banks are concemed, does not exceed our average in specie-paying times more
than twenty-two milliwns, or filteen pel cent. As to the than twenty-two milliuns, or filteen per cent. As to the
greenbacks, the bistory of the twenty-five loms, in ibe month of May. shows that the Becretary cau find any surplus of them in circulation, at the rate of two millions a doy $;$ or, if he were in a harry, by calling for bids he could do it, at twenty latys' notice, at once, which brings us to the conclusion that the day on which the war cluses, will be just the day belure the resumption of specie payments, to all intents and purpuses. The suspension of specie payroents lasted twenty years in England. Her Bullionists bravely. for all those twenty years. in the very teeth of the facts, declared that a purely credit circulation conld not be maintained, and under favor of war prices and speculatiorn in gold, kept up the cry of "depreciation" to the bitter end.
Taking it for certain that this piece of history must get a rehearsal among us, we content ourselves with lurnishing the material for better opinions, to better men, and precedents and forms of despair to those who must beeds see things the way they don'tlise them, and don't like to see things just the way they are.

Wicks for Kerosene Oil Lamps.-One of the most frequent causes of the bad burning of mineral-oil lamps, says the American Gas Light Journal, arises from the employment of damp wicks. Cotton, like most other regetable fabrics, readily absorbs from one fifth to one-sixth its weight of moisture from the atmosphere; this prevents the free ascent of the oil, and leads to charing of the wick, and the produc tion of an-imperfect flame-hence, it is exceedingly important that a new wick should be thoroughly dried before it is placed in a lamp. When it has been once saturated with oil, the further absorption of moisture is prevented The trouble of holding a wick before the fire till it ceases to give out auy vapor is so triffing as not to be taken in consideration, and the nprovenent in the flame and regalarity of buruing is cousiderable.

The Pacific Montuly has again changed Editors, and is now under the management of Lisce Lester, a lady who has recently arrired anong us from Wisconsin. Tue new editur is not without experience in her profession, having loug been favorably known as a writer of decided ability, She has at different times edited several monthly and other periudical publications, in which positions, as well as in miscellaneous newspaper correspondence, sle has displayed marked talent. The magazine before us, though but partially prepared under her charge, exhibits a taste and genius which is eminently promising of fature success. We extend to her a cordial greetiug, and our best wishes in her new field of labor.

The Golden Age, Reese River, is now down about sixty feet, with a four foot vein; One hundred shares have changed hands during the week-principally at private sale; prices varying from $\$ 30$ to $\$ 65$. We notice quotations of the Stock Board at $\$ 30$. These shares are principally sought after by Reese River mill men and speculators from that region. A very fine specimer of chloride of silver ore, from this vein, has been left at this office, and naving been subjected to the heat of a furnace, is completely covered upon one of its sides with globales of silver. The stockholders know, beyond a doubt, that this vein is rich, and heace the reluc tance on their part to dispose of the shares.

Tere most remarkable blast in the history of iron mining took place at the Lake Superior mine a short time since. In ordinary ones but one and one-half inch hote in diameter is drilled, but in this case, one of four inches, and eighteen feet deep was made, distant from the edge of the cliff about ten feet, into which one keg of powder was pat und exploded as preliminary, and which had the effect to open a seam to the depth of filty feet. Sixteen kegs of powder was then put in as a final charge, which threw down over 3,000 tons of ore, so completely broken up that the largest portion was small enough to luad on the cars for shipment without further re-duction.-Marquette News and Journal.
New York will soon be defended by eight hundred pieces of the heaviest ordnance. A gentleman who has recently passed through the large new fort near the Narrows, informs us that he counted fourteen guns described as three-hundred pounders, and that the bulk of the armament consists. of twelve-inch and fourteenuinch guns. Platforms were being laid for fifteor-iuch and twenty-inch gans.

## MEXICAN MINING ITEMS.

The schooner Mary Cleveland cleared, on Saturday, for Ventana Bay and La Paz; in Lower California, Her freight consists of machinery, lumber and mining tools for the Santa
Cruz, La Marroneua and Pena silver mining companies in San Antonio District.
The mines in this District are of the most permanent character, and will compare favorably with the best of the Mexiean mines; the ore being very rich, the maines wide and freight ch ap to and from this city.
The District of San Antonio is fast filling up with Culifornia miners who have already developed about sisty mines; and as they have to rely upon the city of San Francisco for tools and machinery, the recent, numerous shipments of these articles to that place, and the beavy shipments of ore from there to Swansey and Freyburg, and the fine, large samples of rich lumps or specimens forwarded to this city, have made this st ek much sought for in this market. The block of metal at 411 Clay street, sent up from the Marreneuo mine, gives abundant evidence of the strength and permanancy of that mine. Eastern capital, at the present time,
appears to prefer Mixican mines to the less extensive appears to prefer Mixican mines to the less extensive and nore uoreliable veins in Washoe.
The Sieria Nevada, which cleared on Tuesday last, for Mazatlan, La Paz and Cape St. Lucas, took away not only s:x hundred tows of nining implements, but several of our
most able metalurgists, who go to examine the northen most able metalurgists, who go to examine the northern mines in Sonora.
The most of the mines in Lower California and Sonora have passed into the hands of California capitalists within the last year, and many of then are now taking out large quantities of silver and have bundreds of tons of ore now ready for shipunent. In Lower California the ore is Melal cle Fuego, or fire metal, and it is found cheaper to ship it than to assess heavily for machinery to work it on the ground. We are warranted in sayiug that the lowest return of ores from Lower Salifornia to Frieburg wat $\$ 147$ per ton; and the sum total of shipiag, freight, working, commissions and extracting the ore is ten dollars per ton to talke it out of the mine and place it at Veatano Bay, ( 18 miles from the mines) ; $\$ 12$ per ton from there to Frieburg ; $\$ 18$ to work the ore in Frieburg; $\$ 5$ for railroad and municipal duties, and 1 per ceut. commission-m king $\$ 4650$ per ton ; leaving a clear profit of $\$ 100$ and upwards per tón, ou the common ores, and much of it will double this sum in profit, as the late tests will show. Tests of the Triunfo, Guosane, Santa Cruz, La Marronena, Maria, Picacho, San Antonio. Pena and Caruzallita mines which have recently been made, yielded from three hundred to five hundred dollars per ton

The " Dick Sides," or "Sides" as it is now generally denominated, bave commenced suit against certain parties in Virginia City, who have "squatted" upon their ground, for passession of the same for mining purposes. The question of the occupation of mining ground in that city, for building purposes, is becoming a very embarassing and important one. In the present instance, we are indirectly cognizant of the fact that a "written notice" was given to the parties who put up the first "squatter's improvemen t" upon their ground, that the company claimed, under the laws of the District, 100 feet on each side of their ledge, from stake to stake, for mining purposes, which claim was acknowledged by the parties in question, who owned the building that was subseqnently known as the "Old Mormon Theatre," and who at the time agreed to remove the same whenever the ground was needed for mining parposes. A smbsequent possessory right of this description upon mining ground must be very precarious as the Courts have ever been liberal to miners in their allowance of ground for mining purposes, as indeed, they should be.

Franking. - No private citizen, high or low, can send a letter or document of any kind; or any other thing, to any of ficer or public man at Washington or elsewhere (excepting to members of the United States Seuate and House of Representatives, the Secretary of the Senate and Clerk of the House of Representatives,) withont prepaying full postage thereon, whether such matter is upon official business or otherwise. He must prepay letters to the President of the United States, his Cabinet officers and all others in public stations with the above exceptions.

## MINING SEARE MARKET.

Notwith standing the lack of adviops of new developements during the jrast week, and the greater caution which, of late, enaracterized the action of buyera, it wil bo seon by our falling off in the amount of business transacted.
Ophit shares still continue to be liberally dealt in. Prices juring the woek have buen sumewhat fuctuating, but generally at improved rates over last quotations. A dividend of B60 per fout was declared to day.
Grould \& Curry shares are held firmly at $\$ 4, \overline{2} 00$, with mall transactions. A di idend of \$125 per foot was declarad on Wed esday, and a large surplus carried over to meet curtent expensus of iaprovements now in progress at the Company' Works.
Savage shares are inactive, being held firmly at from $32, \pi 50(\hat{n} \$ 2,55$. A dividend of $\$ 50$ per foot was declared on Thursday, and a handsome balance carried over to the fompmen's sinking fund-a fund which the company is grad hally accumulating for the erection of Reduction Works, etc. Burning Muscum still continues to form the chief specuative feature of the Board. Eight hundred and fifty four ares have changed hands during the week, at fluctuating ates, closing at a decline over last quotations.
Chullar shares have been freely offered at a decline of $\$ 60$ this depreciation has been produced by the call of an as essment of that amount per foot, on the 3d instant, and gable forthwith.
Lady Bryan was in great demand early in the week, in conequence of reports from the mine that a valuable and heavy ein had been found. Shares rapidly advanced from $\$ 10$ to bl 6 per foot. No confirmation of the strike being subse pently received, shares declined to $\$ 11$. Seven mundred and inety-four shares have changed hands during the week.
Baltic has been considerably dealt in at advanced rates.
Hale \& Norcross have been cousiderably sought after at 92. - -holders firm at $\$ 1,000$. No transaction reported. Potosi has met with slight sales at $\$ 900$. Grass Valley lares have been freely offured at $\$ 50$, with but few buyers. orth Potosi is quoted at $\$ 32$.
Sierra Nevada shares have a market at $\$ 90$. Daney is in mand at from \$100@\$105.
Uncle Sam has recuvered from its decline of last weekacy now be quoted at \$440.
North America and Baltimore American have slightly delined.
Bullion (Gold Eill,) closed dull at a decline.
El Dorado has met with a slight advan"e. Buckeye is uoted at $\$ 12$; Lafayette, (G. H.) at $\$ 10$; Burniide, $\$ 5.500$ antiago in demand at $\$ 16$; Madison at $\$ 25$; Bajazet, $\$ 12$ Tnion, (G. H.) \$8.
Sheba opened at $\$ 140$, advanced to $\$ 160$, and closed at 145.

Melones have been in considerable demand, and reached 110, at thirty days.
Wide West shares remain steady at $\$ 65$. Late reports om this mine are of a favorable character. We understand hat they have again started their mill on their own rock.
Utah is quoted at from $\$ 4 \Omega \$ 50$. This company has now very strong lode. I'he rock is being worked at the Gregry Mill.
Antelope is quoted at $\$ 90 @ \$ 110$ : Real Del Monte at (400, and $\$ 475$ asked ; Ural at $\$ 40$; Bamboo, $\$ 25$.


| fuwn. |  | Juatic. .................. 42 48 |
| :---: | :---: | :---: |
| Orin =iles | ${ }^{0}$ | hilli thour |
| Junit. | ${ }^{0}$ | 1.veu................... - |
| - | 1 | 1.axe reme |
|  | 12 | 1, ¢un Atus |
| 32 | 60 | 1.1.yette ................ 11\% |
|  | ${ }^{8}$ | La sitt . ...... ........ is |
| der |  | Alta.............. 60 de 16 |
| ge 1hwimun | 4 | 4. 1 mun |
| st covilus |  | Nurth Americull......... в6 |
| Bee | 25 | Amth rplar ............. 10 |
| Miltun | 40 | 1vermau, ............. +40 600 |
|  |  | Orlurual |
| M1.414801 |  |  |
|  |  |  |
| Heethe | ${ }_{75}$ | simatua ..................... $=$ ¢ |
| M | 12 | -trytermm |
| N | 20 | souit ylacha |
|  | 10 |  |
| (1riental.................. ${ }_{8}^{\text {3/0 }}$ | ${ }^{\circ}$ | timon M. Cu |
| Oid virgl |  | Cucto simi............ 300 dco |
| Pluenix. | $\underline{25}$ |  |
| Prak of Weatioc. .......... is | 10 | Ychluw Jucket .............. 1000 |
| Peytoli................. 16 | 25 | Youn |
|  | 115 |  |
|  | ${ }^{1.2}$ |  |
| R"\%erers |  | Goverhar Nye ........... 815 |
| kiecurder |  | H.wiey ............... in $^{10}$ |
| H |  |  |
| Sutro ..................... - ${ }^{\text {s }}$ | 5 | \% ¢инег .................. .. ${ }_{5}$ |
|  |  |  |
| sierra | 110 | Wionemurce |
| Sturamest | 125 | What West .............. - 10 |
|  | 17 | Flowery Distriot. |
| les.................... 350 | 550 | Atwill ....ew ...........i... |
| St | 15 | Adrintic.... |
|  | 15 | Lady Bryas |
| Sierra Nevadk............ 90 | 115 | Harrisun ........ ..... |
| Tex | 5 | Uucle sa |

## REPORT UF BIDS

 At the San Franeisco Mining Stock Board, For tho week onding Nov, $30,18 \pm 3$.
## Namen of <br> Companie <br> Wastos stock suage chollar <br> Chollar <br> date \& Norcross Buruine Mosco Nurth Potus Meredith Charles Caney sacramen Iowa - El Dorado EI Dorado Nortun - <br> Buruside <br> | Adriatic |
| :--- |
| Brenus | <br> Pride of the Weat t. H. G. H. Yunar Imperial Cecar Hill Tumé Mount Da Ceatral Cutar Rogers, F Lucarne Lady Bry Lat Crosse <br> 

 Pors Crown PaintDisulattina Mi, ullhattin
Hudson Lady Ellen
Schiller
 Wule West ADtchapo Utal Federal Hop Jenny Lind
Falls of Clyc $\begin{aligned} & \text { Sunbeam, } \\ & \text { Bamboo }\end{aligned}$ Bambon -
Great West' Cun. Burlington EJ Paso
Crocket
Sitaa

## N

coso srociss.
Joscphine - -
Willuw springs Empire Emp
Coso
Mnxican min
Mina Pricta Mina Prise
Dios Padro COPPER ST
Napuleon Josepline calfornia srocks
Laurel bill Raurel Digging Eureka
Fellowe Fureka
Fock Res
Rock Rive Rock Ri
Utica
Hesma Hemaold S


(1) 11 rlam






SALES FOR THI WEEK ENDIXG NOV. 5, 1863.



12 Chollar roo par foot b 30. 8 chollar. 700 per fuot, b 30.
20 Chollar, 680 per fout, b 10. $\div 0$ shoba, 160 per foot. 22 Justue Gruuad, 80 per foot, $b 20$ 10 Sheb , 160 per foot.
15 Gundalupe de los Angles, 62,50 10 Jackison, H., 10 Enterpise, (S. B. Ledge, 15.
In Iatdy Bryau, 1350 , b 20 . 10 Americau I'jueur. 550 . 15 Laly Bryan, 11 per share.
20 Baluc, 90 per ahare, 130 . 11 Madison, 25 per share. 24 Cbollar, 6j0 per toot.

10 Buruing Moceow, 157 per foat. 12 Challar, 7 l 0 per foot,
50 Chihuahua \& $W \mathrm{~F}, \mathrm{~S}, 30, \mathrm{~b} 80$. 10 san Carlos, 16.
10 さan Carior, 16.
10 New York, $\mathrm{G}, \mathrm{H} ., 1$
10 Kentucsy, (enpper, ) 725.
10 America. Ploneer, 6. 25 Budie No. 2, 275.
25 Upeus Sessame, 250.

20 Blue Ledge, 8 . 40 Deluey, 10250 per foot.
10 Burning Moscow, 158 p

Britisa Copprar Produot.-The production of copper ore from British mines has fallen off. In 1861 , the native mines
produced 231,487 tons of copper ore, which gave 15,331 tons produced 231,487 tons of copper ore, which gave 15,331 tons 224,171 tons, and the metal obtained was 14,848 tons.

No Less than seventy steam fire engines have been made up to this time by the Amoskeag Company, of Manchester, New Hampsiire, including somo for almost every city yin the
Union, two for Halifax, and one for the Russian city of moor. Where do not American inventions penetrate

Bullion.-During the month of Novem ber Wells, Fargo \& Co. shipped from their office in Virginia, $\$ 746,751$, weighing nearly twenty tons. It should be borne in mind in this connection that this is only about twothirds of the actual value of the bullion shiped -Ter. Enterporse.

Mining Agever, - By refereuce to our advertising columas it will be seen, that we have made arrangements to obtain apecial information, through a resident correspondont, with resard to any particular mine at Reese River. Parties in the city about to invest in "feet" in that neighborhood, nad not having time or caring to fnour the expeuse of visiting the locality, will do well to avail themselves of the opportunity. hereby presented securing reliable information, provious to investment, at a moderate cost.
Perrons already boldiug "fent" and desfrous to learn through a disinterested source the actual condition of the mine in which they may be interested, will do well to embrace the opportunily here presented of securing the desired information.
We shall establish agencies similar to the above in al
Fmmett Copper Mining Company.-Notice is hereby given that at a meetugy on the Board of
Trustees of the Emmet Copper Mining Company, beld at Trustees of the Emmet Copper Mining Company, beld at
their office, No 528 Montgmery street, San Francisco, their olfice, No 528 Montgmmery strpet, San Francisco,
December 3, 1863 an assessment of tweutr five cents per share was leried upon each and orery sliare of the capi-
tal stnck of said Company, payablo immeriutely io U. S. gold con to the Secretary at the office of the Company or to L. HONIGSBERGER, Copperupplis.
det? MI. G. ELMORE, Secretary.
Ruth Windsor Tumnel Comprny, Es meralda fistrict.-Notice is hereby given that an assessment of efty cents par share was levied the the capitai
stock of the above company on the 21st. liny of Septemstock of the above company on the 21 nit. ingy of Septemoffico in United State gold coin. By order of the Trustees.
T. I.. Bibbings, Secretary, 305 Montgomery St.
San Franciseo, October 13,1863 .

## Mining Shares For Sale

## D. A. CRANE,

Office 28 Government Block.
475 Shares U. S. Mining Company, Virginia City 910 Shnres Granarla Guld and Silver Mining Company 910 Shnres Granata Guld a
Virgiuia Eill, Virginia City,
168 Shares Evoca Consolidated Copper Mining Company, Crescent City, Cal.
20 Sharcs Mohave Mining Company, La Paz District
Coloradn, N. M.
30 Shares Aspinwall Gold and Silver Miniog Compaby, ovils Ga'e Distriet, … T.
75 Shares Washington Copper Bfining Company, Indiau Bar. Tholumue co.
238 Shares Montezuma Guld and Silver Miuing Com-
pany, Inyo District, Tulare Co.
90 Shares Owen's County Consolidated Gold and Silver Mining Company, Inyo District, Tulare Co.
50 Shares Crown Point Ravine Gold and Silver Mining
Company, Virginia District, N. T.
Company, Virginia District, N. T.
10 Shares Triunfo Gold and Silver Mioing Company

## bactabor.

an rims.

## Tabor \& Hill

ook Brokers \& Real Estate Agents, 502 Montgomery St., cor. Sacrameato,
Buy and Sell Mining Stock on Gemmission. Are members of the San Francilsco stock \& Exchange Board, and of the, San Francisco Board of brokers. nov23

## Giffards Injectors,


 Send for a Circular. DAYID stondart, Agents.

Owens River Canal Company, FOR SALE,




## REMOVAL.

OFFICE OF THE PACTFIC MEETAL Haviag enlarged our Worts at Northeramento street How enalled to reduce from 10 to 15 tous of Silver or
Gold arock per det Gold roak per day.
Gold and Silver ore, and Sulphuret Assajers', or Sil
versmilhs' sweepings reduced or purchen Versmiths' Swoepings reduced or purchased.
COPPER OBES cash, for slipments. S. C. BRADSHAW, adyanced 509 Sacramento stryet, near Sansome.

GENERAL NOTICES.


DR. H. AUSTIN, DENTIST,

## No. G34 Washington street,

Between Moutgomery and Kearny, (over San Francisco I havo recently recoired from London a New and which is far superior to any other ever used. It is light cleanly nad durable, and of a natural color. The cheap. est and best material for temporary (and ia many cases) permanent sets, All operations thorouglaly performe
and at reasonable prices,

## D ESKS

Office F'urniture,
OF ALL KINDS...... FOR SALE BX
JOHN WIGMORE,
No. 423 Califorvta St., San Frangisco OFTICE JOBBING, of ell Kinds, attended to.

## SQUARZA'S PUNCH.

FIRST PREMIUM
at the sacramento agricultoral state fair
ALSO; FIRST PREMIUM At the San Francisco Bay District Agrieultural Fair, 1862 Manveactory, wholssale and |retal,
No. 44 Leidedorff street, Opposite the What Clueer House, San Francisco.

FREDERICK MANSELL, MECHANICAL \& ARCHITECTURAL
DRAUGHTSMAN

No. $\mathbf{4 2 2}$ California street, corner of Leidsdorif
Drawings of Moners made foriparties applying for na
ents at Washingtou or London.
mat
El Paso District, Los Angeles Oounty,
MINING AGENCY
C. W. TAPPAN, GENERAL AGENT,
"Head Quarters," Mesquit Springs,
Will attend to any businers connected with these mines for a reasonable consideration
Latrers of evaciry, ointaining Revinue or Postage
Stamps to the value of fifly cints, and euclosing an ad stamps in the value of fify cernts, nad euclosing an ad
drased elvelope for reply, will be prompur alt euded to The subscriber bas $n$ carefully prepared map, (and
specemeus,) on each lode io the district, a portiou of
For further particulars ha would refer to $\mathbf{j}$. Bur
(1) Pasq, June $21,1863$.
an 31

## R. W. MYERS, \& CO.,

Ohases' New Mill, Fremont St., near Market,
JOB TIURNIWG \& SCROLI SAWING,
BRACKETS,
RED WOOD BALUSTERS, NEWEL AND CEDAR BALUSTERS

Manufacturers of every description of 0 val, Cincular and Square
PIOTURE \& LOOKING GLASS FRAMES

## All kinds or Desings for Building.

 R. W. MYERS.н. с. somes

## MINING LAWS AND FORMS

JUST PUBLISHED BY H. H. BANCROFT relatiug to Mivisig Corporart tions, Assesments. eltc, with
 Congdion. 12 m.
the Bookstores.

## II. C. KIBBE IIINING SECRETARY,

## Commissioner for Nevada Territory

 542 Sacramento at., cor. Montgomery (ABMORY Habl.)GENERAL NOTICES
New Patent Agency.
 The Patent Agency Business,
 upon us. We have au Expericuced Agent at Washiugyears, renders the

Mining and Scientifie Press Agency Patent most deritable place fn make application for Lette Patent on the Pacifceanst. Apply at
Oface of the "Mning and scientigc Press," Room No. 57, Government House, corner of Washington and
Sansomestreets, Sau Fraucisco. EWER \& SJMTH.
SW

## FOREIGN PATENTS OBTAINED

By application at this oflce, Romm 57 Governinent House
NOTICE TO INVENTORS.
Inventors wisbing to ble Caveats should apply at thi
Offee, Room No. 57 , Government Housc


## PATENT RIGHTS

Patent Rights Bought and Sold, at the office of the "Mining and Scientific Preas" Agency
EWER \& SMITB.

JMPORTANT TO IN FENTOTS. Inventors who obthitu their Patents through this Onfece
inn havo their luventions illnstrated nad deseribed iut
the columns of this paper FRER of charge, they merely the columns of this paper Fres of charge, they merely
furnishing the engray yugs. We are also prepared to fur nish enkravioge at transarable rates. Thuse whin do yot
care to care to oto to tho expeuse of haviug engravings prepared
can have their ioventions fully noticed aud deseribed in our columus, free of charra.e. The free use of our col.
umns to nid them in introducing their inventions to the public will be found a most important adyantage to in ptor.

EWER \& SMTH.
WHEELER'S
Amalgamating and Separating Pans,
It is ncknowledged by all who have examined the prin-
ciples and withesped the ciples anll withessed the nperation of these Pans, that
thuy are decidedly superior for triturating and amalgathey are decidedly superior for triturating and amalg
mating purposes to any other in use.
The most important principle connected with the opoprocess from the tor exrractiug tho amalcam from the process from thet ca extractiug the amalgam from the
sand. The ohiet cause of luss of the precious metuls arises from the passing off of the same in combination with
tho quicksilver, during the proces of trituration, and iu tho quicksilver, during the proces of trituration, and in
clenning up By the ittroduction of The Separating Pan
to f llow the trituration this loss is eatirely workug the trituration this loss is eatires there is apootced.

Where these lans haye been introduced and onerated by the sude of otbers on ands from the same vat, the
Wheeler Pank have uniformly gained a farge percentage of metals over its compectitor, as well as a still larger
*** These Pans man be scen in daily operation, at the Yiner's Foundry, ou First street in this city, where all nol6-1f ZENAS WHEELER.

## Wm. P. TAAFFEE, <br> maporter and jobber of

Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francisco.
NATHANIEL GRAY, General Furnishing Undertaker, $64 x$ sacramento st., Cor. of web su

## D. s. mutchmsos.

## METALF\& HUTOHINSON'S

 PHOTOGRAPHIC GALLERY,650 Washington st. Three doors below
Having refited tho above rooma the Firm are now prepared to furnish the public with n suparior style of
picture, at a lower prioe than ever before offered in the city
As we have every facility for producing theso beautiful pictures, in all their difterent parieties, we have re
ducect ilhe prico to to duced the prico to

## \$ 3. Per Dozen!

Large sized Phantorraph1s 83-Extra copies 81 each.
 chil inesired. Particular attention paid to pictures of Pictures painted in Oil or Water Colors, and refouched $\mathrm{f}^{\mathrm{n}}$ India lak by a competent artest.

## HOTELS.

International Hotel, ackson Street, --....- San Francisoo [A fuw doors above Montgomery.]
FIRE-PROUF BRICK BUILDING.
Most convenient to the
DR, Busivess sto \& Pluces
usement
OPEN ALL NIGET.
City Railroad Cars Pass the Door.
REDUCTION IN PRTCES
Tine Bathing Rooms attached to tho Barber shop
THOROUGHLY RENOVATED AND NEWLY FUR-
wished this sping. Every Room opens to the Light and Air. Each room is furnished with a arst quality Patent spring Bed and Har mattresses. The Iuternational offers to guests the greatest number and

Best Furnished Family Rooms and sets as goon a table as ang Holise in the city,
I am determinet that he Intrknatomal shall be the most comfirtable, best regulated, nad in all respects superior to any like establisliment in the state, and shat aim to naerit a continunuce of the popular favor it lase
enjoyed heretofore. It will be conducled on Temperance Priziples, F. E. WEYGANT, Proprietor

## Tremont House, <br> 418 and 480 --.. Jackson Strect

[A few loors from Moatgomery,] San Franoisco, Cizio
THIS FINE, FIRE-PROOF BUILDING OFFERS MANY only half a block from the Post Office aud Custom Hnuxe,
and abont the same distance from the priacipa! places of Amusement.
The City Railroad Cars pass the Door.
The House is conducted on Temperance Principles,
WBICH SECURES TO OUR GUESTS QUIET.
The prices for board and Rooms aro very moderate-
y the day, meal or week. Wif solicit a call fros Arl F. E. WEYGANT, Proprietor

For the aconmmadntion of my many guests I have taen and refurmaned the INTERNAmAN Horst, and whi arly on the wo houses in connection, so that Trapelers
fishing to put up nt cither hnuse, may take the Tremunt Interiational hotel Coach aud be taken to citaer Houso with their baggage, Frees.
F. F. WEXGANT。

## THE RAILROAD

 H O U S E.Nos. 46 and 48 Commercial and Clay Ste, SAN FRANCISCO.

Stiferen Shity.................. Phoprietor.
The above House is a Fire-proof building, with Granite Front, and kept on the European Plan, wjilh board and lodging by Day or Wees to suit the convenience of our Patrons.
The Rooms are handsomely furnished, upplied with Patent Spricg Beds, and Hair Mattraste日, afording very superior accommodations for families or Ge Table is

The Table is supplied with the best the markot afords prices to suit lae time
The Rail Road House Coach is always in attendance at the Steamers to convey paskengers and thoir baggage to the House Free of Charge.
The House is open all night.

## P. M. S. C O.

PACIFIC MAIL STYAMSHPP COMPANYYG rond with tide steamerrs of the Atlautio and Yactio
Steamship Compazy at Aspinwall FOR PANAMA.
The following Steamships will be dispatched in tho
Dec. $3 \mathbf{4}$
Dec. 12th, - - Stoamex Golden City
Dec. P3d Steamer St. Lonls.

Will leava Folsom Street Wharf, with Passengers and Trensure, for Punama

AT 9 O'ClOCK, A. M., PUNCTUALLY.
And connect, via Panama Rajlroad, at Aspinwall, with teanships for New York.
For Freight or passage, apply to
A. B. FORBES, Agent.

FOUNDRIES \& MACHINE SHOPS.

## REYNOLDS

 Patont Cut-of and Governor, FOR STEAM ENGINES. 12 of of the Inviurable Nachinea, ARE NUW IN CSESaving 20 to 65 pert ceat of the Fuel.

## Steen's Improved Governor

Clark'sSteam and Fire Regulator,

## Ingersoll's Patent Drill Press,

Felt for Steam Boilers, Pipes, Etc..
Steam Engines, Boilers, Pipes,
Anti Incrustation Powder,
Sure temedy for scale an stwam Bnilers, wathout injn Refer ta-sin
L. A. Bonth, Fing, Virgina City,
and 2,000 uthers in the Conited States
E. T. STLEN Agent.
No. 33 Eremout Strect, Sau Francisco.

## PORTLAND BOHER WORKS.

MOYNIHAN\& AITKEN,
Boiler Makers \& Sheet Iron Workers,
Mission, between Beal \& Fremont Sts, Sub Fraucisco.
N. B All kiods of Boitor and sheet Fron Work exe erus. jy 29

## P UMPS!

HaRRISON'S

## California Lift and Force Pump,

WYTHOUT VALVES OR PaCKING
Suitable for siues, Fire Engines, Wrecking or Irrigat og. This is tha cheapest, Lightest and most burable

ALI SIZES
apable of throwing from ONE HUNDRED To FIVE
HOUSAND Gallons per Minute-For sule by
C. H. Harrison, Phœentx Oil Works,

## $10-15$

 517 Front Street, Sun Fraveisco.
## 50 lbs. MARINE and

Hire-Proot Paint,

## DIRECTIONS :

For Decks of Shups, use two partg Blineral Paint, one


 25 POUNDS FIRE-PRROOF PAINT.
 ire Proor, and costiog less than any paiut. DIRECTIONS:

 padi mix with Linseed oil. Put it thick on a tin Roor
hooe coat when pruperly applied wifi last threc years.

## FOUSLDRIES \& MACIINE SHOPS.

PALMER, MANSCOM \& CO.,
GOLDEN STATE IRON WORKS,
No. 19, Fifat Strect, San Franciseo,
Furnish Castings and Machinery of all kinds Genclink Wuitr Iron Suoes and Dies. palair, hanscońB \& Co.

## To Quartz Miners.

 wnox's ImprovedAMALGAMATING PAN, PALMER'S PATENT STEAM CHEST.
THE ABOVE COMBINATON SECCRES THE MOST


 Nos. 19 \& 21 First Struet, Ean Franciseo

The public are informed that I, etters Patent have been
grautud the undersigura unon Stenn Chest Fialse Bat
 th same without his coneent. Wr. A. D'ALMER.

$$
\begin{aligned}
& \text { Joun P. Gallahere...................spru H. WERD. } \\
& \text { GALLAGHER \& WEED, } \\
& \text { BRASS \& BELL FOUNDERY } \\
& \text { LOCK FAD }
\end{aligned}
$$

No. 125 First sitreet, opnosito Minda, next door to Pacific
Brass and Composition Castings and Finishing, done with neatness and dispatoh.
Church and steaibuar bells, of ill siris

 All Jobs promptly attended to.--Prices mederate.
Removed frum oregon stroet, between Front and Davis.

Miners' Foundry

## MACHINE WORKS,

First st., between Howard \& Folsom, san francticu.

E DERY DESCRIPTTON OF IRON AND BRASS MACHIint che state if Catioruia, witl be furnished with dis-
patch nt the Minern' Foundry and Mfachine Works, as: Steam Eugines and Boilers, Flour, Save and Quartz mill maccinicry, M1ning Yunps, Amalgamators, Retorts,
Etc.,
Etc.
Etc.,
Particentinu will be egiven to the manufacture
Pr Machanery in sectious, designed for places or afficult

 smill quantitios will be afforded ample facilities, free
cost. All parties desiring accurate and highy finished draw
iogs and superno Mnclincry, nit mnsl reasonable rates are cordially iuvited to call before contractiug elsewhero HOWLAND, ANGEL \& KING
Hary 23,1863 .
San Fracisco, February 23 , 1863 .

## San Francisco MIachine

## IRON WORKS!

Northeast conner Fremont and Mission Streets.
A Steam Engines, Hugh and Low Pressure; Quar
mills, Snw mills, Mining Punaps, Hoisting machines fo
miniog purpeses, Wine Presses, Agricultural implemeut
ote. miniog purpesea, Wine Presses, Agricultural implements
etc, etc, and Custings nf anl desciptinns made to order
steam Engiues exchnaged and for sale by REPAIRLGG promptly attendell to
San Francisco, July, 1853.

FOCNDRLES \& MACHNE SHOPS.

## VULCAN IRON WORKS COMIPANY

## P. Torquet, Manager, <br> STEAM ENGINE UILDERS <br> and <br> BOILER MAKERS,

Iron Founders and General Engineers,
No 137 \& 130 First street, Sun Francieco.
Pumpag, Hojating, Miming an uartz-crushlug Muchluery.
Shoos and Diea of tho bardest iron,
Russia irou Puuched Screeus.
Stenmbont Machluery: Naw, Fluur and Sugur Mills. High und Law Presure Boilers of all Styles. Jonval and ocher Turbiao Widtor Wheelo with Jatest improvements.

## W. T. \& J. GARRATT,

## City Brass and Bell Founders

## Cor. First \& Market sts, San Francisco.

$\mathrm{B}^{\text {ABBET MEEAL CASTINGE, FRE ENGINES, FORCE }}$


 rabl's l'ateut Improved Jourual Sotal.

## D. MORRIS, MACHINE SHOP 227 Market, corner of Beale Street.

Manuficturer of
ED FIRE-PROOE SAFES


## LEWIS COFFEY AND RISDON,

STEAAL BOILER AND SHEET TRON The ouly exclusively Eoiler Baking Establishment on
the Pacitic Cuast Uwned und conducted by Practiral be Pachic coast owned alld conducled by Practiral
builer Makers. All orders tor Now Work, the relairias of Old Work, executed as ordered, and warranted as
Old Stand, corner Bush and Market Streets Opposite Uriental Hotel, San Frunciscu, Cal. Lewis Coffey
[HEODOR KALLENBERG

## Maker of Models

 FOR INVENTORS.$\mathbf{M}^{\text {ACHINES, MATHEMATICAL, }}$ icill Iustruments, Scales, Weights, eto.; stoph
 Neparing of Machinery prompty attended to.
No. 418 Market atreet, Sun Franeisco.
n7.8on)

## AMALGAMATOR.

## The subscribers would call ine attention of the Min

ine Public to thelr Reulucer aud Amalgamator, nud also
to their Separator for reducing aud suparatiag the mine-
GOLD AND SILTER ORES,
manufactured and exhibited at the Vulcan Tron Works
Xos 137 and 139 First
sireet,
Stan
Thesu machiucs secure to, hle minerat moro Expeditiou
 ty to accident and delay, aud a greater amount of useful
trect an proport tion to thi power mployed to keep them


 nors $3 \mathrm{~m}^{*}$
ne HEPBORN \& PETERSUN.

## KUSTEL \& DEETKEN'S

## IIETAL工URGICAL WORKS

for the reduction of
SILVER AND GOLD ORES, Tailings, Sulyhurets, Arsenuirets, Etc., Etc.,
Cupellation and Refiving of Silver and Gold,
Practical Assays for Sllver and Gold, a Small uud Large Quautilies, by Sreelting, Chlorination

## Wurrs-Ou the siat brumo Road.

OyzGE-No. 605 Muntgomery at, San Francieco. nov 7 tr.

Patais Clunge - Te will furuish, an application, tho clintu of aury iuveutiou that haw heruphteutud wathiu the
 should be sent.

Modesa--loventara wall pleaso uttiche to all models selt to ua, Chetr namea and addrees, ill a legible, per thatient furm, this will avoil cosfuxion and prevent errurs.
Drawings. - Wo have highly taleuted and eflleteot Brauglatinach, by wham drawings of every ufseriptious are executed in the best stgle of art, whith promptitude and al a moderate cost.

## WANTED

By a competent persoll, the Secretaryship of four 3iuing Compranies. Bookn to be kept at the omee of the Blinug and scieutifc Press, No 67 Governmont Houes aquife as atovo. oet5

## SOUTII PARK

Quartz Mill and Reduction Worls

OMee at the Bill, south Beach and Thi H. SMITR st © CO.
je13
W. R. WATERS Sccrotary.

## W. W. HANSCOM,

## Steam and Mechanical Engineer,

Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for MacKenzie's Patent Cupolo and Blower.

## At Golden State Iron Works,

$\operatorname{aug} \mathrm{x}$
First Stroet, San Francisco.
Eye, Ear and Throat.

## DR. DECASTRO, Oculist and Aurist,

WYO HAS PRACTISEDD TN NEWW such urrivalled succeess, and from encl place is in posseg-
sion of the most emineut testimonials, may now be consulted upon diseasses ol these delleate oigans, with a view to their permunent cure. Deafness of loog standing tho.
roughly cured. The Doctor temploys his (uy the Medical

## Self-adjusting Artificial Tympanum,

For the renel of deafuess, attended by loss or mujury of the membraua tympai, and fur che cure of discuargo
from the ear-the inveution of Do Castro, M1, D., author of "Deafness Practically Illustruted as 80 its Nature and The sclf-udjusting Arificlal Tympanum was frst introducelan Loclaty fillon, on the 20th of Nuvember 1863. An animated discussiou vosued un tho reading of the puper, aud several mumbers of the socicty bore testimony to the success of the remedy und tho iomportance of the original discowery, Mr. Baker Brown (niember) bore testimany to the SelfAdjusting Artificial Tympanum, as ho had observed the immelise bewhia sas in fact, quite deaf, and in a most miserable state; the elfect of the ty mpanum was ingtantane
ous-quite like a mirncle. Frve more tostimooials frum Members of the Marrne.
cipal entics of Euros
Operaling Operating Ruoms, DNION BLOCK, coruer of Market and - -

Won Mr. Editor-Having been afficted with deainuss for the last two yeare, originating trum $n$
severe culd, and for the last month suffering from tho most excrutiatiog pains in my ear, I was obliged to come
down to San Fraticisco to seek relief. After a plysician'a recumendalinu to wait on Dr. De Castro, on the curner of Kearny ind Market streets, and underwent une operation, avd it is with the utmont pleasure I can say my hearing
was suddenly atul withont pala entirely reatored. I deem it my duty to make this kcown to the bublic, and to re
 James Callaghan, witness,
San Francisco, Ju'y 30th, 1863.
[From the Drily Alts.]

Ed're DAILy AtTA Permit me thrnugh pour widely circulated journal. to
say, that my daughiter Mary Ellen, has beeu aflicted with deafiness sincestie was thirtpen months ntd, aud that she las brell a member of the Deal and Inmb Institute since
it was nrgnizel. Ou inking her to Dr. De Caftro, on the it was nrgnizet. Ou inking her to Dr. De Caktro, on the
eorrer of Kearney and Murket Sureets, and undergoing un fery distractly, and is now, I am liappy testate in a fal
way to got permanent relier. The result, Chas far, is sat istactory; and I deem this notice due to Dr. De Casiro fo hifskill: and would recommensi an parties simulariy a
filced to give hima trial My doughter has at dilferen times been under the care of the mont skilful plysician
and aurints 112 Culifurnin, but up to the period of risitia Dr. De Castro, received an henefit. CB . WRIGET, JOHN
PIT

MINING NOTICES

N. LOMBARD INGOLS.

## Aocountant and Mining Secretary,

No. 10 Governmant Hutss, Cor. Washington \& Sansom Sts. office of the
Wanta Crez Petroleum Oil Worke Co., Gem Silver Mining Co., (Reese River, N. T.,)
N. B. Mr. Ingnls will pay particular nttention to the ndjustmeat of complicated accounts, Commercial and Incorporated Cumpanies' Bonks, to drawing ap Commer-
cial writings and to Fagrossiag legal or ncher documents cial writings and to Fagrossing legal or other documents
Fith neatuess nad dispatch. An expericuce of mone
than twenty-6ve yenrs in every branch of his professinn is a guaradee of his practieal and thorough acquintance with its duthes. He has the privilege of referring to of his business and clerkly abilities.

Mammoth Consolidated Gold \& Silver Mining Co., Excelsin gomery St., San Francisco, Nov, 28, 1863, Notico is herelv given: there will be sold at Public Auction, at
the ofice of the Commany, in San Frabcisco, on Saturthe once in the Company, ill San Frabcisco, on Eatur-
day January 9864 at 12 ocluek, M. of that day,
to the highest bidner, for cash in U. S. gold coin, an to the higbest bidder, for cash in U. S. gold coin, an
many Shares of the Capital Stock of said Company stand many Shares of the Capital Stock of suid Company stand.
ing in the names of the following sharcholdera ns will be necesary to pay assessment No. 1, of ten (10) cents
per share, duly levid thereon by the Brard of Trustens on the 9 th. of May. 1863; aloo assessment No. 2., of thirty ( 80 ) cents. per share, duly levid therena by the poard or srustes. on the 27 ih of June, 1863 , together with all ments are previnusly puid to M. G. Elmore, Sec., san
Francisco, or to W. H. Dalryniple. Finaucial See., Aurora.
Names
No. Cer't., No. Ass't., Shares, Am't. Namea
MJBrown J B Best.
G W Rail
GCChis.


W D H Hankell. Jatmes Jaques. ABK F. I Mram John Patten Geo Raymand. $\left\{\begin{array}{l}126 \\ 136 \text { to } 131 \text { incl }^{\prime} \\ 142 \text { inel }^{\prime}\end{array}\right\}_{2}^{2}$ J S shultz..... W J Smuth ... W J Smith.... H W Wan
W J Vernoa...
By order of Board of Trustees. MLMORE, Secretary.

## A New and Valuable Book

Process of silver and Gold Extraction, P by Guidu Kustel, Mining Engiweer and Mettalugist, tavo illusarused
This atmirabie work has met with the highest com mendations from the lress and Scietitific men, as a clear and able exposition of the science as practised in Calfur-
nia and Nevada Territory-it is written for the people in gond phan Eỉghsh ann finely illustrated.
Price-post paid-Gloth $\$ 6$; Shepl $\$ 7$

Bouksellerp, Importers and Publiwhers,
417 and 419 Montgoniery str
nors

MINING NOTICES.

## 

A portion of the abnve slock has been sold and no
transferred. By order of the Board of Trustees.
San Francisco, Norember $10 \mathrm{th}, 1863$
Hager Bras.,
76 and 78 Federal Stre

## HEYER \& CO.,

IMPORTERS OF
aERTCAN AND EUROPEAN
Fancy Goods, Toys \& IIusical Instruments; also,
(OAPS, PERFOMERY, HAIR AND TOOTE BRUSHES, Abums, Cutery, Willownand Pari.ı Ware, Children's
Carriates, ter, Our Strek of Violn, Guitar and other Carriages, te, , Our Stuck of Violm, Guitar and other
String is very large. Unr Foreign Goors are Eelicted by one of the firma, and the American by the Raston
Houso (established 18:4.) We have the Solo Agency for
Hallet \& Daris' Boston Pianos, Smitth \& Bros' ${ }^{\text {Harmonings, }}$, and
Treat \& Linsley's Melodeons. The Hallet \&i Daris inianos are ench supphed with their
Pateut Snspeusicn Bridge, which is a decided improvement. It gryes a full and cleur vilirtaion in the upper
netaves, producing a quality of tone unequalled is frem-


OWEN'S RIVER CANAL COMPANY.
Capital Stock
10,000 Shares ........ $\$ 100$ per Share.
A Portion of this stock is no offered to
FULL PAID AND UNASSESSABLI
Stock, also Assessable Stuck, cau be obtained of A. J
UOWNER \& CO., the autborized Agents of the Company 406 Montgomery steet.

R. S. WEIGHAM, formerly of Whigham's Bill, Nevada

WILJJAM FILMME ................... of San Francisco.
WILLIAM P. PRATT................... of Nash \&Fngg.
Office of Company $3 \approx 8$ Montgomery street
AR ARMGTRONG. WM, FTILDER

STARCHERS OF RECORDS
for Mining Claims \& Real Estate. RELIABLE ABSTRAOTS guaranteed at reasonable prices. LETTERS OF ENQUIRY promptly answered.
ALEXANDER STOTT,
MINING SECRETARY 512 Sansome Street, San Francisco.

Horse Sine, Silver and Copper, Monte Diablo. Gesbral Jackeos, Guld abd Silver, Devil's Gate.
Figaro, Gold ana silunr, Alpine District. auio
T. C. Sanborn \& Co. STOCK BRORERS,
No. 630, Montgomery Street.
$\mathrm{O}^{\text {Phir sllver mintic stocte, }}$
goutid \& curry mining stock,
CHO1.LAR MNLNG STOCK,
Caidfornia steam navigation cos stock, BOUGHT \& SOLD.

## NEW MINING AGENCY.

TV
HAVE MADE ARLANGEMENTS WITH A SPE
cial Currespondent at Aubtin, Reese River. by which any information altaiuable with regard to ayy
particular mive in that localty can be olthiued, for the Private Benelit of Parties
 mencral chaficteristics and condition of the sume the sonable few will be required for such service. For fur
ther ioformation apply at thas ofice.

## L. F. LELAND,

 STOCK BROKER, No. 621 Clay street,Offce Hours, 10 to 11, A. M.; 2名 to 8名, P. M.
BUSINESS CARDS

## A. C. MORSE <br> Mining and Real Estate Agents  ad SEhh every description of Miang stocks in Eame

GOLDEN AGE G. \& S. MIINING CO, Austin, Reese River.
OFFICE, 57 Goverment House. WM. POOLER, SEC'X.

Fire Hose! Fire Hose!! Fire Hose!!!
J. P. D. WILKINS,

The celcbrated HarNESS MaKER of sinckinn, makel
Furs Hose. from the best maturiat, zud Farkantid al tral of the Weber Steam Engiae Co., No 3, of the cit meut, and known to stand a presure of $1: 5$ ponads $\ln$ the square inch; us certified by the Chief Enqineer. ALSO FOR SALE,
All kinds of H.arsess and sandiery, at the lowest casl prices. Repararsg done promptly, one door west of thi
act 12
Main strpet stible.

## WANTED,

Guldquartz sutithemon CUTTING JEWELRY,

THE EUROPEAN ORE REFINING COMPANY

Quartz Mill and Furnaces, Bryant Street Crossing Whird, San Francisco. I.

## RECEIVE ALL KINDS OF

ORES AND MINERALS
a large ur small quantities, for such Experienced Treat LATES EUROPEAN METRIODS,

## CAREFUL ANALYSIS,

At their works, to be the most Effectual in obtaining re arta cious Metals they may contain, into marketabte Ingots. The South Park, and Folsom and Kearnystreel Car pass Bryaut street.

The Pacific Mineral Compnay

## M

Copper, Silter, Tin, Nicerl, Cobalt, Zino Lead, and Sulfhurets containing Gold, Dne acconnt, takea of all valuable metals combiner
ith Silver and Copper Ores, and advances made thers Por. Parties nwaing undeveloped mines and desiriag capith amination, such leads are deemed sufficiently valuabli tn justify such expenditure.
${ }_{\text {deler }}$
fonteomery Sireet, SLn Francinco.
MARTIN \& Co.,
OFFICE---284 Montgomery Street, Üp Stairs,
WILL CONTRACT FOR THE
Purchase of Copper Ores
For the Purchase and Sale MEXICAN MININGSTOCKS $\mathrm{O}^{\text {FFICE OF }}$ ver Mining Companics, san An Antonio District, Lower All persons are iovited to call and examine Ores fron w. FAUL_KNER

## New Bedford Copper Company.

THE CNTERIGMEN HAMING BER APPONTED supplies of their sulperior manifactures of
Sheathing Copper;
Brazier's Copper
Copper Bonts;
Yellow Seeateiva Metal;
Copper and Composition Nalls; hiect they ofer to the Trade at the lowest marke
and on the most favoratio terme.
and un the most favoration terms sone Co 108 Front sieet, San Francisco.

a journal of mininu, manufactures, science, art, cememstry, inventions, etrc.

## VOL. VII. SAN FRANCISCO, MONDAY EVENING, DECEMBER 14. 1863. NO. 7.

## ENLARGEMENT AND IMPROVEMENT

of the mining and scientific press. satumay, jayuary 2. 1803.
The publishers are plessed to annouvee the enlurgament of this Journa on the 2d of Jaucary next, frum eight to eixteen pugen-double ata present size.

## NOTICE.

The publication of the Miniva Ave Scinstipg Press will herenfter conflueted by the firm of DEWEY \& CO .

San Framelisco, Dec. 1st, 1883. C. W. М. Sмirt W. I Emek,

## TERMS OF SUBSCRIPTIONS.

Upon onlarging our sheet, we kave determined to adhere atrictly to the advanco payment for Rubecriptions, and shall make ouly a shight advance on old pricem. Our raten, liereafter, whil be as follows:-For oue year, $\$ \mathbf{8}$; six months, 53. By city carriers, 50 cents per month.

## To Adverisers.

The circulation of the Press throllghout all the Mining Districte of this State and Nevada Territory, renders it a desiratile advertisiag medium for Mining Companies, Inveutors, Patanteur, Machlmate, Munufacturers, Build ers and Tradeamell. Terms rensonable and uulform.
(A). Avertisements for the first issue of our enlarged seriea, should banded in at at oarly day.

## Sacramento Agency.

W. B. Rice, at the bnok-store, 146 J street, between 5 th and 6 th , is ou Ageut for Sacramento city

Our Address
Parties addressing this ompe shuuld be particular to write the nan " Masing and Sctevmpic Press" in full, to avoill all liabilities of mistakes.

## OUR NEW ARRANGEMENTS.

By special notice it will be observed we have associated with us in the publication of the Press, Mr. A. T. Dewey, of La Porte, Sierra county, who has been connected with the Mountain Messenger, as publisher, for the past five years. We shall now be enabled to carry out our long cherished plan of enlarging the paper, and the friends of mining and mechanical industry may rest assured of soon receiving a journal in every way worthy of their representation and universal support.
A. Desirable Lapronkment, - Crocker's Stock and Assessment Ledger" is claimed to save Secretaries of mining companies a great deal of labor, and is a real assistance in keeping the accounts of shareholders from becoming com plicated. The pablisher's description will be found in our advertising columns, and a copy of the work can be seen a the office of the Prfss.

A Rare Cabinet of Minerals.-We were well reprid for a visit to Dr. Jos. M. Frey's office, at Sacramento, in a
brief exanination of his rich and rare collections of minerals, brief exaraination of his rich and rare collections of miner

Riversids.-This is the name of a new " city " just laid out in Keys' Mining District, Owen's River, ninety miles south of Aurora, and fifty miles above Bend City. Mr. ©. C. Scott informs us that the mines prospect richer than those of the Inyo District, and that they are surrounded by rich and healthy agricultural lands.

Pilot Knob.-A correspundent writing from "Pilut Knob" says that the Pilot Knob shaft is now down fifty feet, with high hopes of success at a depth of 100 or 150 feel. Our correspondent adds:-
"T'oo many around here get faint-hearted if they do not find copper near the surface. We prefer depth with continuation, to surface with pinching out and in. Many shafts are idle, awaiting the periodical excitement for more work There is a fine development of two leet of rich ore in Johnston \& Co's shaft, near the Aroyo Seco. They are persevering, energetic men, and deserve success. The Lima also is taking out ore; vein, I believe, 12 inches. Excitement has ruled high for a time, but sober business has now taken its place.

Reported Silver Discovery,-A correspondent writes from Mokelumne Hill, Dec. 5th., 1863, as follows:-I have just returned from the Stanielaus River, and vicinity of Melones, where I think another rich etrike has just been made by a company of Greeks. While prospecting for copper they struck a vein, about four feet wide, yielding sulphurets of copper and green and blue carbonates of copper, in which there is a large proportion of silver. A piece of choice rock taken from a depth of two feet, produced at the rate of $\$ 414$ per ton, while an average lot produced $\$ 302$ per ton. This assay was made by our friend Dr. James Hepburn, of this place, and was made for silver only. In a few days I may give you a discription of tie place, and its ledges, for pulication. The first chance I have I will send you a piece of this Greek rock for your cabinet.
R. W. D.

The Refse River Quartz Mills.-Correspondence, dated Austin, 28th of November, in the Virginia City Union says:
There are three mills here in this canon, and three more are being built; but they are pretty generally idle now, on account of the mill men and miners being at swords' poiats about the price of the crushing- $\$ 100$ per ton. The miners also say that the mills are not prepared to give proper return's as they have not a sufficient number of pans. Whatever may be the merits of the controversy, the disagreement exists, and its consequences have been injurious to the country, much retarding its development.
Mocu excitement exists in and about Salt Lake, uwing to new discoveries of good deposits of the precious metals. Gold and silver bearing quartz has been found in several localities. The Mormons, or at least the head men of Brigham's tribe, are in nowise pleased at the "strikes" being made. Yet prospecting continues daily, whether they like it or not. The "Saints" fear a rush next spring of hardy miners.
The annual freight bill of the Central mill in Virginia city is, we are informed, about $\$ 20,000$. This is for salt, cliemicals and such machinery and other things as the legitinand tear of mill make aecessary.
Tae Humboldt Register says, something like two miles above Star City is found a limestone bluff, having a bold, square front, like the lacing of a huge fort. In the face of this is the entranco to one of the grandest caverns ever yet explored. It has been partially explored.

Four Masted Sclooner.-An eccentric looking craft o this description is now freighting on the Sacramento river

Santa Cruz Petroleust. - The Santa Craz Petroleum Oil Works Company have worked wonders in the last two weeks. A road has been constructed to the Petroleum Hills, one building, designed as quarters for workmen is alrendy finished ; another, two stories high, and of larger dimensions, is almost completed. The brick, for boiler and engine, and for retort and still foundations. are already on the ground. If the rains do not very much interfere with the work, we shall illuminate Santa Cruz with oil from our own hills before spring.
The supply of petroleum and rock oil is giving out in the East. Many of the refineries in Pennsylvania and Cacada have stopped work for want of the raw material to work upon. Crude Oil has adranced in price from $\$ 1.50$ to $\$ 5$ per barrel.
There seems, in many places, to be a sudden exhaustion of the great reservoirs of oil; sometimes however the springs are intermittent, and resume their flow after a short cessation.
The Santa Cruz Petroleum Oil Works Company will not be annoyed by any intermission or exhaustion of their supply of raw material. The petroleum is all above ground, and in quantity sufficient to last a century. If by boring they should reach a reservoir of oil, that would be clear gain.Santa Cruz Sentinel.
Miners in Demand in Siekiyou County.-The Yreka Journal says that Siskiyou county is deficient in a supply of Mining hands, caused by the stampede to now places, and the dread of China competition. Miner's wages have increased twenty-five per cent., and mechanics' wages have also increased.

The Recrat Elfction in the Washoe Stock Exchange Board at Virginia resulted in the choice of R. M. Daggett, for President. R. W. Billett for Vice President. John McCarty for Secretary, and R. T. Smith for Treasurer, all of whom were elected by acclamation there being no opposing candidates.

The Commerce of tee World.-It is stated that the commerce of the world requires $3,600,000$ able-bodied men to be constantly traversing the sea. The amuunt of property annually moved on the water is from fifteen hundred to two thousand millions of dollars ; and the amount lost by the casualties of the sea, averages twenty-five millions of dollars.

Chicago Wood Patements.-The Board of Works in the City of Chicago have given the preference to wood pavements over those of stone, as being the most durable of any kind yet used there. The fullowing is a description of the method of construction: Lay down fooring of oue inch board on a bed of sand; coat the floor with asphaltum; stand on end blocks of wood six inches high, by three inches thick, and nine inches in length, in rows about one inch apart, divided by strips of boards. Fill in these open मarrow spaces with asphaltum. There are six niles of these pavements in Chicago, which after six years constant wear, aro found to be nearly as perfect as when laid down.

## [From onr Traveling Currespondent.] COPPEROPOLIS.

Mr. Edrior:- In collecting information as I travel from mine to mine, I hare nuted down several matters, which I suppose, may be called abuses, liecause they are uyjust to miners. These. I hold, your paper slould recognize, and correct, or at least in justicice tôitself, endeavor tó correet. Oue thing in particular, I find very injurious to the mines, and all classes with whom I have conversed upon it are ansious I should bring it forward.

Throaghont this copper country, there are many claims having a local value from five to twenty-five dollars per foot. These prices, outside stockholders, men of business, and shareholders laboring on claims they own in, are content to pay, and do pay all the time. In fact, quite an amount of stock, after this fashion, is constantly changing hands.At the same time not one of these claims could scll a foot at San Francisco for as many cents. Now this it seems to me is wrong, wrong in itself, wrong especially to the laboring miner. If men living in the neighborhood of a claim, or working, a claim, are content to give ten dollars a foot, be cause they know it is worth the money, being a marketalle article, it ought surrely to be worth the same on Montgomery street. If the brokers choose to make San Francisco the centre of the mining market, they must at the same time assume the entire responsibility, and not dictate what shall, and what. shall not, as their sovereigu pleasure wills, be offered for sale to the public. If the country must be governed by San Frarcisco, in return, San Francisco should be just to the country. The present system is a curse rather than benefit to the mining interest.
Let nue state a case in point. A company with limited means go down on their claim say seventy feet, and strike a vein which makes the stock worth ten dollars per foot in its neighborhood. They then require further ineans to prosecute their work, pay their bills and so forth. Money happens to be scarce in the country; San Fraucisco is closed agaiust them, and so, much to their injury, work is saspended. Now, in such times of need, the centre of the Stock-market, if there is one, is precisely the place to go, being formed for that purpose, at least one would think so, but they may as well go to Jericho as there, for the market is not open to them. You may sell auy other property when, how, or to whom you please, but your mining stocks you must get permission to sell. Such is the condition of many mines here, as you find by my reports-"work is suspended." Now, I cannot see that a change of system, by which means could be obtained to prosecute work, by a ready sale or hypothecation of reliable stock, neecessarily opens the door to wild-cat stock. The "cooking" system is not practised here becanse simply the mines are good. All $I$ contend for is that if a claim has a. local ralue of ten dollars a foot, it ought for the same reason. and from the same cause, because it is worth ten dollars, to have the same value in San Francisco.. For instance, the other night, a hall-share in the Massachusetts sold here for $\$ 1120$. How much for the same could they get in San Francisco? Not a dollar, good as it is. I hope Sanborn, Berry, and other leading men will think this matter orer. They may rest assured a change in this respect would be of immense benefit to the mining interest in the country, briag 2 safe and profitable business to the Bay, and put money in their own pockets. I think the brokers as regards this matter really are pursuing a suicidal policy. They have a worldwide reputation for geuerəsity-ever free, open-handed, just. Were they a sordid, sharp, crafty, money-loving class, I should appeal to their cupidity. Those who sit on the miners' throne, should give some little heed to the miners' rights and wants.
The last mine I mentioned in continuing my report was the Colmor, some ten miles east of north from Copperopolis, near Altarille. We must now come back to Salt Spring Valley, and begin with the

Thís claim contains 3,500 feet, divided into thirty shares. Main shaft eighty-five feet, with two drifts. The first drift, eighteen feet down the shaft, I did not see, but I am told it held good copper. A small vein was eat below, also, 75 feet deep, more west than they are now drifting, and to cat it again in a more easterly course is the object of the present work. This claim has hảd a good local value. The shaft, is sunk in serpentine rock, which in my opinion is not favorable. The Union lode, however, must run through the Ken-
tucky, so if they do not find it in this shaft they can in. another. I was in hopes of getting some handsome specimens of asbestos here, but those left were poor. I send you two, one of each kind. The peculiarity of this rock consists in its being impervious to fire. and capable of being woven into cloth. It has long heen nsed by the London Firemen, in cases of extreme need; and is, I suspect the great secret of the Fire-king of Frisco. I suppose the people have wearied of seeing him lyy this time and worship some other "curious thing," so I shall not injure his business by disclosing his secret. Contivuing on some three miles we reach the comet.
This claims contains 3,750 feet, divided into 25 shares. Main shaft fifty feet, showing a well defined lead two feet thick, with walls about eight feet apart. Work suspended to put up machinery. The Comet is certuinly on the Union lode, and will soon have a high value. A short distance from, parellel with the Comet is the

## framitin.

It contains 4,500 feet, divided into thirty shares. Main shaft, 20 feet; nothing going on here at present. Indieations good. Near the Franklin and parallel with it, is the

It also contains 4,500 feet, divided into thirty shares. Shaft, thirty-seren feet, showing a small vein well dereloped. Work suspeuded until next Spring. Aboat one-quarter of a mile east of these clairs, at the foot of the hills, and parellel with them is the

## buffalo.

This claim tas also 4,500 feet, dirided into thirty shares. Main slaft, sisty feet. with one drift tweuty-five. Rock much torn and bolted by a slide. A small vein found. These claims shorr very plaiuly the four reins of the Copperopolis system. Nest, up the valley three miles more, is the
With 4,200 feet, incorporated. Main shaft, thirty-five feet. This claim excited great expectations at one time; but the rock now looks so contrary that I do not like to venture a prediction. There is much work to he done heie. Nevertheless, indications of a vein exist. A mile further on comes the

## caledonia.

This claim contains 3,000 feet, divided into 3,000 slares. Main shaft, 105 leet. The Caledonia will shortly be one of the principal mines of the ralley. The rein opens well at the top, and goes down regularly increasing to the bottom where it is twenty-two feet thick. The veins at the present consists entirely of mundie, and may change any day to copper. A clange in the rock is very perceptible now. If they do not have a hig thing here, I know not where they will find it. As excellent engine from Coffey \& Risdon of the Bay, has just been put up, making the works very complete. Mr. Brown and Capt. Frost showed me every attentiou. Proceeding still some miles, to the north of Stockton and San Andreas road I finish the mines on the Copperopolis lodes, and leaving the Salt SI ring Valley, come into the Spring Valley District. First here, is the

## Jefferson.

It contains 2,800 feet, aivided into fourteen shares. No work going on at present, the owner paying so much to the Forty-inine, as one shaft will develop both claims. : A very good and prudent arraugement.

## taf fortr-xine.

It contains 3,000 feet, divided into 3,000 shares. Main shaft, fifty feet. This mine is eventually going to stand high. When down 100 feet, the rock will lose what little corruption it bears at present, and show a strong vein. It contains good yellow sulphurets now. On the east of these claims a few yards is the

## u.iberty.

It contains 2,800 feet, divided into fourteen shares, with two shafts, fifty and forty feet respectively. In the former, the indications are good; the rock carrying strong sulphurets. In the latter the reiu dipped out with such an inclination that a third shaft will be required: Again, west of these, betiween three and four hundred feet, but parellel with it, is the

## pocatontas.

It contains 2,800 feet, divided into fourteen shares. Main shaft, fifty feet; which has been put down principally by one man working alone, Mr. Gaffneff, formerly a liquor dealer in

It is the most striking and creditable instance of individual pluck that I know of. Thought at one time that it was all lost labor, but a closer examination shows me I was wrong, and that the old geatleman has a righlit good chance. Ho drills and blasts alone, timbers alone, hoists alone. If he does not deserve a good reward, who does?
I staid all night at thê Briant House, kept by a gentleman of that name, and which is certainly one of the best road-side hotels I know of in California. The next moming Mr. McKeon accompanied me round. He is largely interested in copper, and lias made himself well acquainted with the Copperopolis veins. We visited first the

## constitution.

This claim contains 2,800 feet, divided into forr'een shares. Work just commenced with excellent croppings and openings. It is two miles east of the line of the Union, and appears to a swer to the course of the Crockett. Something orer 100 yards east from this is the

> spring valley co.

This claim has 5,000 feet, divided into 250 shares. Main shailt fifty feet, with vein well developed. One hundred feet ought certainly to give good copper. Next is the

## bueva vispa.

I find I omitted the dimensions of this claim, It is a contiouation of the Constitation though two 口uiles from it. The indications and croppings here are really magnificent. The Buena Vista is lucated on a very high hill on the south side of the Caldveraz, giving a glorious view of the whole country. Recrossing the river, and going west. of north some two miles we found the

## sam boorer.

This clain is named after Gen. Booker of Stockton. It contains 2,800 feet, divided into fourteen shares. Main shaft 107 feet deep. The vein opens well, I understand, at the bottom. The rock carries abundance of mundic, and looks well. Work suspended natil next Spring. Mg own opinion is this will be a good claim. From here we rode quita a distance to Mr. Pattee's hotel, where we were very politely received, and proceed to the

## jackson.

This claim contains 4,600 feet in 200 shares, Main shaft forty feet deep. The vein well developed at the bottom. The rock is pure, carrying mundic and yellow sulphurets. Depth only is required here to have an excellent mine.' I have to apologize for not visiting the "Sylvester," another claim near the Jackson, as I promised to do so the uext morning. I beg to state I could not find it. I proceeded then to Mr. Coles of the North American Honse, another excellent hotel, eight miles lower on the Stockton road, where I met friend Weihe of Stockton who was up on $a$ shooting trip. I was happy to lear from him that the Stocktonians are well pleased with our efforts. After dinner we all drove out together to see the

## young america.

This claim contains 6,600 feet in thirty-three shares. Main shalt 140 feet, showing a good opening, and a strong vein all the way down. The work is well done, though the shaft is a little too stnall. The rock at the bottom in spots is peculiar, being soft as if slacked by lime. It carries an immense body of mundic, with large thick veins of yellow sulphurets throngh it: I told Mr. Cole they might strike the vein at any hour, and at Jenny Lind two days after I understood they had done so, and to use a common mining expression "struck it grod." If they have not they soon will. This claim is on the Gopher system, and before long will stand high.
Here closes the Sult Spring Valley and Spring Valley mines. 'Caken altogether they look very well. I have now only the Jenny Lind and a few others on the road back to Copperopolis to report upon, which I will " write up" without delay.
L. H .

Geological Survisy of Great Britian.-The Geological Surrey made considerable progress duriag the last year; two thousand four hundred and thir'y square miles were surveyed in Cieat Britiau; the publication of the maps proceeded, and mempirs were issued fllustrating the geology of the Isle of Wight and the country aruund Bolton-le-Mours. In Ireland the nery ground examined amounted to about nne thousand and twenty-eight square miles; four new umbers explanatory of the maps were issued. The survejors were also engaged on the re-examination of the districts of igneous rocks rumning from Wicklow into Waterford-London Mining and Smelt-
ing Magazine for October.

Tue Aurata.-If the New Turk Buard a Chderwriturs are wise thry will chose with the prupusition of respunsible parties in this city, whu have offered to undertake the tais. ing of the A quite tor $\$ 1$ ind, non in golld. This party offers to asve the Aquilu, if it is practicable, and to guarantee the safe raising of the Comanche under any circumstances. If necessary, they bind themselves to buik a coffer dam entirely arsund the wreck, and pump it out within a given time. The answer of the Underwriters is not yet received.
That the cargo of the Aquila cau be saved beyond a peradventure. is a matter that can searcely admit of a duabt. The ship lies directly alongside of a substantial wharf, with her stern some ten feet out of water, and her bow thirty feet under water. It is a matter of tho utrunst ascouishment that a party of wreckers, with suitable diving apparatus, has not long since been set to work to take out the carge of this ship, by taking off her deeks and raising the cargo piece by piece. If danger from etorms is appreheuded, there are varions ways that she may be rendered perfectly secure in her present situation.

The trouble seems to be that nobody appears to own her-she being held by these parties in interest-the Government, the Underwriters and the Contractors - each disclaiming any positive contruling ownership, and each asserting that she is in the hands of the other. The contractors have evidently made a loosing speculation, and have apparently nothing to gain by moring any further in the matter. The Government has adraneed $\$ 340,000$ on the Comanche, which amount is fully covered by insurance, and therefore bas nothing to loose pecuniarily, as the matter now stands. The amount of insurance affected by the contractors, does not appear, but at all events the underwriters do not seem disposed to accept an abandonment. Thus it appears that the city of San Francisco with all her valuable commercial interests, are to be kept in jeopardy for an indefinite time, while these several parties are endeaviring to settle their dispute with regard to title. It is earnestly to be hoped that the Government, if neither of the other parties can agree in the matter, will step in, and in some manner close a contract with the San Francisco company above alluded to, so that this much needed security to our harbor and coast may be raised, set up and made ready for duty at the earliest possible moment, This work cannot now be done mach inside of a year at best. Had this unfortunate accident not occurred, from five to six months only would have been required to have put the Comanche afloat.




## METIOD OE ORUSEING ORE.



## EXCLUSIVELY ADOPTED

 weted to tha invist severe of all tests- hast of constant
use-and in every caso have been pronounced

Eferctive, Substantial and Reliable.
They arn mow extenalvely uged throughont the
mineral ragions of Californis, Novada and Mexico, and have est zh hisheit $n$ clum to pmblic confilence, never yot equalled in any pioce of mining maclinery.
These Milla are comatructed a tmost entirely of Iron,
and, consunnuntly, are notafectol by the intence henit anil, consunumblly, are not affectoll by the intense hert and dirynes of a imnophere, coimmon to all mining local
Hod. They are idapted to
BOTH WET AND DRY CRUSHING,
And are warrnnterl to reluce, with the same weight of
Stamge, 25 per cent, more rnck than any other mill in Stanga, 25 per cent, mora rnck than any othnt mill in
use. Farly Pattery is complote ins itself, and forms a
nerfect mall-while any number of then can bo adderl at ant male-whime time thus preserving the symetry and
unformity of tho mill Asan rivicnce of the Increasing favor with which
these mills are regarided, we wnuld mention that the Colehrated Ophir Cnmpany first introlinced them into
Cheir works in 1 Rino, and hnve lieen adiling a number Batteries, each suisequent year, until hoy now have

They are perfectly fitferl and set upat our Works, beore shippine, cach piece being marked nnd numbered,
so that they can be put up and set at work in teu hours so that they enn be put up and set at work in tell hours
affer arriving on the gloubl. They are madr of two siafier arriving on the ground. Thry are math of two si-
zes. four fun five Stamps each. The Frur Stamp
Battery, weighing complete about 6,000 pounds, Battery, weighing complete about 6,000 pounds,
non the Five Stan! alonat 7.000 . The inctar Bed being
cast in sections, when desired, go that the mills can bo maked aver any mountar ron

Wo annex the namps of " few well known Companies who have ardinted them-running from four
five stampseach-to whom refercuce is made:

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co, Esmeralda, Crown Point Co., Gold Hill, Potosi Miniuy Co.. Ti:givina City, Tajo Mining Co' Mexico, Sheth Mining Co... Humboltd. Lotta Mills Co., Coso
Ameriean \& Mexican Co., Mexico San Carros Mining Co..., Owents River, Enion Quartz Co., Aurora, Triunfo Mining Co., Mexico,
Kapa Quartz Co., Aurora, Petaluma Quartz Co., Gold Hill, Francis Melilus \& © Co. Slate Range, W. R. Churchill. \& Co.. Mexico, Willow Springs Coo., Coso, Hews, Howe \&t Co.. Rich Gulch Flat, F. A. Beniamin \& CO... Me exico,
O. J. Parker $\mathbb{E}$ Co.. Nicaraman.
O.J. Parker \& Co., Nicaramua,

Smith \& Clouser, S. F. Reduction Works. Amagoza Mining Co., San Bernardino,

MANUFACTURED ONLT BY
GODDARD \& CO., At the Pacific Iron Works, SAN FRANCISCO.

Having been connected with the public works of the State of Ohio for 20 yenre, nud the public surveys of the State of California for 7 years.

## ALSO <br> state locating agent.

600,000 ACRES OF STATE SCHOOL LANDS
At the low price or $\$ 1,25$ per Aere.
Torms-Twonty ner cent tu cash and tho balanco
on nerrelit of snreral years.

oc7. 3

## D. NORCROSS,

## Military Gcods of all Desoriptions

Navy Trimmings and Embroideries.
REGAIIA FOR ALL ORDERS.

MEAD \& VAN TASSEL, HATTERS,
Montgomery st., cor. of Commereinl San Francisco.
$T$ OUR FRIENDS AND THE PUblic gengrabisy Hening Purchinsed the entire intere:t of shessrm
Fishre \& Co., in thic city, wo shanl, on tho 1 st duy of HAT EMPORIUM,

uniance or the patranage sn long and lilicrally bestoweil
upon the old House, fecling entire confidence in our abil-
Mr. THEODORF, VAN TASSELL,
Mexsrrs Le Gay \& Con, woulid be pleased to to ht yeats withs
The long practival experitence of Jraers, Meat \& Van work cannut be excelled cither in fimish on wluralilitity

French and American (Manufacturc.
Our Stuek now on hand is superb.
Call and examine and judse or

Respeciflly MEAD \& VAN TASSELL
nnv2
RIEHN, HEMME \& 00.
ASSAYERS.
Office, Montgomery street, cor, of California

## Assays Made of ores, Minerals and Metals.

rehigrted witir peramssion to

Cris. F. RJEHN, late O. $S_{\text {, Branch Mist, glves Lossons in }}$


## G. E. MOORE

Assayer and Analytical Chemist,




OPPOSITION
Steamship Line!
Sperind Notlece-Thac Stamacra or zuma caxuguar noutc watil suxther nolsec.
GRIBAT REDECTION IN RATES !
The Fast and Favorito Double Engluo Steumehip,
MOSES TAYTOR, . II. Blembin.............. Comahander Will be dispatch for PANAMA
From Mission street Wharf.
WEDNESDAY, - DECEMBER $23,1863$. Connecting at Asplnwail, by the Panamn Rallioned, with the Ppllenild Ster malhip
illinois
2500 Tons.
The Mones Taylor, siace har logt trip hins undergone


For fuithes informathoh or Pamence, apply to


## BOOK KEEPING, Penmanship

COMMEROIAL OALOULATIONS, Taught by J. S. LUTY
PRACTICAL ACCOUNTANT,
305 Montgomery Strect, Coxncr of Pine.
TO QUARTZ MINERS.
Al persoms interested in Mining Maex tanm my tuproved Amangmator, It is buquetton-
 will amalgimate over three tunas a day. By the montion
of the rovolving multer, the pulp is drawn through its contre nud pacsps nuter it. Detween the grindimg surfaces, to the cireumference; from whenceit passes again
over the muller to the centre, through the tholes and be over the muller to the centre, through the holes and be-
trect tho grinding surface to the circutnference as before. Thus a constate circulation of the pulp is kept up,
briuging the farticles of ore arain and agaln under thas muller, and reducing the whoje mass to an imvalpable inwiler. Ningicksilver lirs between tho surfaces to he ground, but at the circumference and centre of th pan where the metal must pass through it as thie pulp cirenlates. A Datent was granted for this Amalgamator in De-
cemlier last, itd all persons are hgain warued agonst cemler lust, atd all persons are hgain warued agarnst
purchasiug machilles made at the Miners' foundry ealled purchasiug machines made at the siners' noundry ealied
"Whecler's Amalfamutor," as they are an infringement
on my mevt, ann n suit is on pending In the U. S . Girait Court againat the parties infriogiug. My dmatgaMak ors cuth be sen rumbing at Donalue's Fnundry, where
all can juige or therr operation and the very superior tyle in which they are being manufactured.
Sefin 21

## PATRONIZE homie manveacturies!!!

James Longshore,
Trunk and Valise Manufacturer,
307 susome Sroct, under Tehama Ioouse. Trmks and Yalises, und a fiue assortment of L.LUIE' TRUNKS con

APARTMENTS.
FURNISHED APARTMEPNS, WTTH, of WITHOUT Walshingtnistreet. Perwons desirous of a respeciab=
jome will do well to apply.

## FOR SALE.

Patravt prased rusast hron mantag pans. Russia [ron Quartz Screena for Mills;
Portible Forgos; Cauldrou Kettles ; Portable Forgns; Cauldrou Kel Pumbs, both Frume and Lift
Lad Pije ; Rubber Hose; Wrought Irou Pipe
Bubh Cocks ; Couplinga; Play Pipe
Cooking Stoves and Eeaing Stoves
Conking Stoves and Heaiing Stoves
Tin Plate: Shet Iron ; Sheet Copper
Frutt Cans co Vrious Kinds:
Lard and Butter Cans of all Sizea.
Lard and Butter Cans of all Sizea;
Iron Wire: Bras Wire ; Copper Wire
We are also manuficturers of the
UNEQUALLED
MONITOR COOKING STOVE
Or RANGE,
For IIotels.
To which wo call particular attention

## REESE RTVER CORRESPONDENCE.

## Austix, December, 1863.

Editor Mining Press:-Since writing my last commui eation, I have stood a "Looker on' in Veuice," waiting for events to settle down into some tangible shape, whereby I might give your readers the true status of things, as received on the ground. The condition of the mills here is not entirely satisfactory, as but one in the cañon, has been in operation during the past week, the rest are being housed or inclosed as fast as possible. I may make an exception in the case of one, which seems laid by entirely for the winter with only a temporary shed over the boilers and machinery. amador district.
The chief attraction, the centre of all, as I may say, is turned to the Amador District, at the foot of the Eastern range of hills, skirting the valley of the Reese River, several miles north of Clifton. This is not a distinct district, but called so to designate its locality. About six weeks ago, the Amador ledge was discovered und as the work ou it progressed, revelations of great promise were developed until the whole population became wild with excitement, and now, I doubt if there is a miner or an individual who could get arvay, who has not been over there with his pick and shovel prospecting. A town has already been laid out, called Coral City; and buildings are being put up as fast as lumber can be had.

In the canon, this side, I was told to day, machinery for a five-stamp mill, had arrived on the ground, and would be in operation as soun as it would be possible to putit up. While there is plenty of water, it is to be regretted that there is a deficiency of wood in and around that locality. The nearest considerable woudland, is eight miles up the same range of hills, or in sight across the valley of the Reese river, twelve or thirteen miles distant, in what is called Ravenswood district.

## the anfador mine

Is located on a gentle incline, facing the West. The ledge has been opened twelve feet below the surface, exposing a finer quality of quartz than in other districts, full six feet wide, tinted țhroughout with the blue sulphate of copper, and holding somewhat plainly, bi-sulphuret of iron, with some show of horn silver and bromides. I bave yet to see the first man to speak unfarorably of it. This, together with my own information, induces me to pronounce it a first class mine.
other mines.
Every claim taken up, in that district from which I have seen specimens, seems to be of the same classification of rock peculiar to this district. The Gen. Banks, another mine located on the same incline, two hundred feet below the Amador, running parallel and directly in front, is highly spoken of, and is said to be equil, if not superior to the Amador both in quantity and magnitude. From personal observation, I cannot speak of its vastness, as it was not stripped when I was on the ground, though I can pronounce it to all appearance nearly the same in richness.

Other mines have been taken up; indeed, the whole mountain has been run over, and wherever any indications were exhibited they were taken up at once, and, from appearances, with promise of a rich-reward.

Unfortunately for mines outside of the charmed circle, they do not seem to provoke any inquiry, probably not that they are worth less, but the new mines, more.

## desperadoes about.

We are having a rehearsal of the times of your city before the days of the vigilance commitee, wherein life has no secnrity or protection, and it is seriously contemplated to adopt the same course of proceedure, to rid ourselves of a class 0 : murderers who regard human life as a plaything for their bravadoism and courageous (?) exploits. It was but a day or two since that two men were shot dead and the third mortally stabbed.

## confidence in the mines generalit.

With all the drawbacks we have with the mills, I do not see that the confidence in the bidden wealth of this section, is the least abated. With the best mines, I do not see any lack of progress in their development. This surely indicates no discouragement and should prove the full faith in the integrity of the mines, by capitalists and others, most interested in their development, and ultinate success. It is probably
true, that many claims have been taken up and forced upon the market by sharpers, whose specitic object was to fill their pockets, and then let the burthen fall upon their dupes; also that many with honest intentions, have embarked in the same enterprise and found they had mines not worth the powder to blow them up.

## heedless investments.

I have often wondered how a business man, who would not purchase a peck of beans without first examining them, or pass over money without balancing the equivalent well and long; is so ready to accept any man's " ipse dixit" when it applies to mines, and । ay over thousands at the sight of rock studded with metalic globules, containing but a small percentage of silver. Take any other species of property, and the voucher of a saint will not answer his purpose. He must see for himself, and study the probabilities of a retnon from his investmeat. Let him apply this attention in his choice of mines and he will have less regrets to burden his soul, and mbre money in his coffers. If a man wishes to invest iu mining speculation, and his attention is called to any particular locality, he bas ample means to know what he propose to purchase, even though he cannot risit the mine bimself. Thro agencies established in almost every district, a pretty fair conclusion can be formed, corroboratory, at least, as it should be, of the representations upon, which he originally proposed to purchase.

## SACRAMENTO.

The persistent and indomitable energy characteristic of Californians is strikingly illustrated by the recent accomplishments of our Sacramento neighbors. Doubtful if there is upon record the example of any community that have been so repeatedly impoverished by misfortune who have so promptly rebounded and risen to prosperity. Eighteen months ago one could see no encouragement or but little hope.for the city to sustain her greatness, but now her darkest daya seem passed, and with newly graded, gravelled and planked streets, mammoth levee, State Capitol and Paeific Railroad, she appears again upon the broad track of prosperity. The foundries, machine shops, and variuus manufactories have been evjoying an unusually flourishing season.

## the legislature

Organized in both branches promptly and harmoniously on Monday, the first day of the session. Tuesday the Senate met the Assembly in joint convention and canvassed the vote of the State Election. The vote for Governor sums up 108,905, Mr. F. F. Low receiving 64,283 and J. G. Downey 44,622. Mr. Machin, for Lieut. Governor, received a majority of 20,950 over Mc Kinstry.
The Inauguration of Governor and Lientenant Governor took place at noon, on Thursday, in the Assembly Chamber, after which Mr. Low delivered a very sensible address, in a plain, pleasing manner. A substantial military display was one of the features of the day, and a splendid ball was held at Agricultural Hall in the evening.

## sober inteliagence.

In appearance our State officials show an improvement in favor of sobriety and intelligence, and cold water will doubtless prepouderate in Sacramento this winter, without the aid of floods. The Legislature bave exhibited an appreciation of aseful knowledge by giviug the Mining and Scientific Press a liberal subscription list in both Houses.

## tee Lobby.

The "Third House", of which (as a brief member) we must speak modestly, has sadly degenerated in numbers but highly increased in respectability.

## the legal tender issue.

The question of the repeal of the Sanderson contract bill of last session, is likely to become a prominent one, and from the sentiments we heard expressed by varions members, we think the chances are in favor of its nullification. The grounds assumed by those in favor of legal tender circulam tion is that thousands of dollars are now coined by importers and wholesale dealers through the premium on gold, and consequently consumers are-holding on to the short end if the stick; and further, that the bill is an ind rect discountenance of the Government's treasury notes as legal tenders, not particularly complimentary to the patriotic repa. tation of Californians. The matter will certainly be ably

Reses River Items.-The following paragraphs are from the Reveille of Dec. 3d:
Anoreer Mus,-The machinery for another quartz mill, to be run by water, owned by Hon. T. G. Plielps, has beea deposited on the site selected for it, at the luwer end of Lander City, on Big Creek. We like to see these evidences of the faith of mill men in the richness and permanency of our mines.
Tiefnan \& Co's mill, Lander City, will be ready to run shortly. The batteries bave not arrived as yet, on account of sonse delay on the road, but a large arrasta has been built, and the pans put in order, which will be used for crushing and amalgaraating until the batteries can be placed upon the ground. A large quautity of Great Easteru ruck is at the mill, ready for crushing.
Tre Amador.- Near fifty men are daily employed on this edge, stripping it, rumning a tunnel, etc. If this energy is continued during $t$ e winter, the Amador will, by spring, be in a very advanced stage of develupment, and un immense amount of rock will be ready for crushing. We are pleased to see such enterprise. If all our mines could or would exhibit such, it would require only a few mouths to develop to the satisfaction of all, the vast riches of this region.

From Hexboldt.--Cbarleg Barber, from Sierra District, has shown us a very pretty silver brick taken from ten lbs. of rock from the Eclipse Series. He gives encouraging accounts of the progress of mining development in Huabboldt. He feels fully confident that that region will be shipping large quautilies of bullion inside of two years.
Owev's River.-A gentleman writing from Owen's River o the Aurora Times, says: "that country will no doubt prove to be as rich in gold and silver as any yet discovered. The Slate, Russ, White -Mountain, lnyo, Coso, and Slab. Range, are all rich as far as prospected. The San Carlos Company are pushing their work ahead, and will soon have their mill ready to commence crushing rock. Bend City is getting to be quite a large place ; also, San Carlos. There are families coming in every day, and settling up the vacant land. There is plenty of as good land here as I ever saw in any cuuntry, and I think this will, in a year or two be one of the finest places on the Pacific Coast."

## MINING SHARE MAREET.

The Mining Share Market, for the past week, has been characterized with extreme dulness, and quotations, as a general thing, have fallen off. Chollar, Sierra Nevada, Daney, Grass Valley and Wide West have each met with slight improvement; ; while the Ophir, Gould \& Curry, Buraing Mascow, North America, Lady Bryan, El Dorado, Chihuahua and Western Summit, Utah, Sheba, Melones, Justice and several other minor stocks have fallen off from last yuotations. An unusual amount of assesstnen's, recently levied upon several promineut mines, has contributed in part to this depreciation. The ardor of speculators has become very much dampened of late, while outside buyers are much more wary than formerly and much less inclined to invest at any price.

Gould \& Carry has been more in favor during the past week, with very little offering. Uffers of $\$ 4,450$ have been freely made, without finding sellers, alchough we notice a single transaction at that figure. This is $\$ 50$ less than last week's figures. Dividends for the month have been freely sold at \$140. Remittances of bullion from this mine for the week, have exceeded any previous similar period.
Ophir shares have been dealt in to a less extent than for several weeks previous, and at prices generally about $\$ 25$ less than last quotations. Notwithstanding the increased dividend, ( $\$ 60$ per foot) declared last Monday, dividends for the current month have been sold at from $\$ 40$ @ $\$ 4 \overline{5}$.

Uncle Sam is considerably sought after at about last quotations. It has changed hands during the week at froin \$430 (a) \$440. But few transactions are reported, holders being generally firm. Accounts from this mine are bighly encouraging. The company has a large amount of very fine ore already out, and are constantly raising more. They have an 80-horse engine just arrived upon their grounds and are busily engaged in putting up a substantial engine house.

Potosi is quiet, owing probably to the announcement of an assessment of $\$ 50$ per foot. It is said that the present indebtedness of the Company is small but that further oatlays will be soon required in the thorough development of the Company's mine.

Savage is well maintained, and favorably regarded by per-
manent holders ；Eales wero made a few days since at $\$ 2 \% 50$ dividend off．
Hale and Norcross is much firmer，and has changed hands at $\$ 1,100$ ．The new vein fuund in this mine is said to be well concentrated and improving in appearance．
Chollar has been largely dealt in，at prices ranging from 868．）to 675．The recent assessment of $\$ 50$ per fuot has not effected the atuck unfavorably．
Baltimore A merican，which opened the week at $\$ 32$ ，de－ clined to $\$ 24$ before its close．
Lauly Bryan is iu demand at 910 ．We hear nothing fur－ ther of th：late repurted＂strike＂in this mine．＇Three hun－ dred and forty－five shares have changed hands tho past w eek， sgainst more than double that number，the week previous．
Wide West has been steady at $\$ 65$ ．We notice sales， however，at \＄7．

Real de！Monte has declined to $\$ 350$ ；Utah to 40 ；Bam－ boo $\$ 28$ ；Crocket；Chihuahua and Westera Summit \＄18． Antelope is quoted at $\$ 120$ ；Esmeralda at $\$ 13$ ；Silver Hill at $\$ 13 \frac{1}{2}$ ；Garabaldi at $\$ 8$ ；Bamboo $\$ 6$ ．
Mins Prietu is quated at $\$ 240$ ，with $\$ 250$ asked ；San Nicholas \＄7̄ and La l＇rovidencia \＄y．
Burning Muscow still continues the excitement of the Board，and has been largely dealt in during the week．Oue thousand and sixty shares（one eighth of the mine）have changed hands at prices fluctuating from $\$ 130 @ \$ 150$ ． An assessment of $\$ 10$ per foot was levied on Saturoay．The i djunction suit of the Ophir Company vs．this Company，had been modified，allowing the Moscow Company to prospect and timber their mine，but not to remove the ores．

Real Del Monte changed hands at $\$ 100$ ，but is not now quite so well sustained．We learn nothing new touching the progress of the coutest now pending between this and the Pond Company．
Sheba has been considerably dealt in at from $\$ 1521 / 2$＠ $\$ 15$ ．
Melones rose from $\$ 95$ to $\$ 110$ ，buyers 30 ，but has since materially declined．

Baltic has fluctuated between $\$ 80$ and $\$ 90$ ，and closing sales were made at $\$ 85$.

North America has improved within the past few days Thie claim is in better repute，and is likely，under judicious mavagenent，to assume a better position in the market．

Amador（ $\mathrm{K} . \mathbf{R}$ ）is creating no little excitement．Receut advices state that from $4,400 \mathrm{lb} 3$ of average 20 ck from this mine， 200 tbs of unretorted amalgam were obtainet．The company have，it is said， 100 tons of ore reajy for crushing， and are vigorously at work opening their ledge in a number of places．$\$ 250$ is bid for the stock，$\$ 1000$ asked．See letter of our correspondent，in another column．

Coral，an adjoining claim，is said to be in much favor at enhanced rates．

Owens River，private sales reported at $\$ 30$ ，and at $\$ 75$ 50 feet at the latter figure－little offering．
Santa Rita，an extension of the above ledge，sales re－ ported at $\$ 30$ ．The market for both the last named stocks is inactive，but they are regarded as promising and valuable．

Willow Consolidated（Summit District，Reese River，）is held at $\$ 20$ ．The Company are in treaty for a mill to be placed on the ground ready for active operations early in the spring．There is some enquiry for the stock，but no sales reported．

| rected for the Mining and Scientific Press，Thurnday，Dec．8，［86\％3． |  |
| :---: | :---: |
|  |  |
| Bid．Ask＇d |  |
|  |  |
|  |  |
| Allea．．．．．．．．．．．．．．．．．．．．．． 25.40 | United states（\％）interest，）．． 700 |
| chi | W．Sco |
| Alturas．．．．．．．．．．．．．．．．．${ }^{3} 6$ |  |
| Belvidert ．．．．．．．．．．．．．．．${ }^{8} 8$ |  |
| Birdsall |  |
| Bajuzet and Golteu Eta．．．． 1230 |  |
| Buruside． |  |
| Buruiag | Gold Hill Distrin |
| Beacli－Paxtot | Alpha ．．．．．．．．．．．．．．．．．． 1000 |
| Bioomiugdale．．．．．．．．．．． 2 |  |
| Crexth（Buctavab）．．．．．．－－ | Bultic．．．．．．．．．．．．．．．．．．．．．． 85 |
| Cedur Hill Tunuel．．．．．．．．－${ }^{8}$ | Bullio |
| Cole ．．．．．．．．．．．．．．．．．．．． 814 | Belch |
| no | 3r |
|  | Culedonia tunnel ．．．．．．．．． 3939 |
| Durgan． | Copers ．．．．．．．．．．．．．．．．．－ |
|  | Combibed effort．．．．．．．．．．．．． 60 |
|  | Dell ．．．．．．．．．．．．．．．．．．．．－ 100 |
|  | Darda |
| Grass Valley．．．．．．．．．．．．． 50 － | Eur |
| Huzel Green．．．．．．．．．．．．${ }^{\text {a }}$ | Fo |
| Harri＊ou，Virginia incerpo 26 b0 | Fair V |
| 星 | ${ }_{\text {cold }}$ |
|  | Golden |
| 5 | Hawkeye．．．．．．．．．．．．．．．．．－ 35 |
| 4 | Hudso |
| rviag．．．．．．．．．．．．．．．．．．－${ }^{25}$ |  |
|  | dependen |



REPORT UF RIDS


HALES FOR THE WEEK ENDING NOV． $5,1863$.

|  | 10 sierra Nevalk， 80 per phare． <br>  |
| :---: | :---: |
|  | 10 ballle，ks peer staie |
|  |  |
|  |  |
|  | 160 Buruith Slumcow， $\mathrm{H} / \mathrm{per} \mathrm{ft}$ ． |
|  | 20 Buthlik stestew， 150 |
|  |  |
|  | 10 Burnill Mawcriw， 130 per toot． |
|  | 68 phatey， 20.50 per thut． |
|  | L0 Just\％＂Li＂uld， 70 ger foot，b 00. 3 Sa vager ： 700 pert thet． |
|  | 10 chilhumbus © W．E．， 30. |
|  | 10 Juckm n ，（ IL. |
|  | 10 J．ceksun，（11）\％2 |
|  | 10 － 10 ra，N゙以L |
|  | is Ludy By |


TUESDAY

| 5 Wide West，$\$ 70$ per share，b $\mathbf{S O}$ ． | 20 Burning Mo |
| :---: | :---: |
| 20 Utalt，\＄45 pir onlure， |  |
| 6 Amercicail Pinneer，（copyer） 250. | it Burrmik sioncow， 147300, |
|  | 10 Burumg Muncow， 148 |
|  | 40 Burning Moseuw 14 |
| 10 Cidedunia Tuuzel，ful per nhare． | 10 Buralig Buscow，1： |
| 10 bahtmore Aaterte $\mathrm{m}, \$ 32$ ． | 10 Nurth |
| \％U Burumut Murciw， 135 per foot． | （e） |
| Burnsing Mtiecow，140 per fl，b 30 | 1010.11 dage，E．， |
| Burnilig Noscow，135 per 11 | 10 \＃wal Leadee， E ： |
|  | 6 Sin tranciseo， 6. ． H ．，$\$ 80$ ． |
| O Burumg Mancuw，132， 030. | 40 Uregou，R．R．， |
| 14 chullar tou per luet， b 5. | 10 ＇erru，is |
|  | 10 Eelipse Tuubol，H．， 810 |
|  |  |
| 10 Whe Weat， 65 per share， 8 Chullut， 680 yer foot， | 10 Bun Frankiliti，\＄13 per ehare． 8 civuld \＆Curry，$\$ 4450$ कु fooi． |
| WEDN | SDAY． |
| 10 Lady Brynn， 9 per slare． | 10 Burning Moscow， $1 \pm 2$ p |
| L Lidy Bryan， 8 per slua | 22 Wine West， 70 per aluare，b 80 ． |
| 4 Choillar 6so per fuyt | 10 feet Upil |
| 56 Clantlar， 680 per fuot，b 10. | ber，sto pree fluut． |
| 60 Buruiug mowtuw． 14150 per ft． | 25 Croekert，\＄3 |
| 10 SLeba， 10.20 |  |
| ${ }_{5}^{4}$ Could curry， 44 |  |
|  | 15 |
| 5 Widu Went，io prer lout，b． 30 | 10 Bm |
| nollar， 8700 | － |
| 8 clibllar， 770 pur fuot， b 25. | Y |
| 20 chullar， 750 per cout， |  |
| 20 chiollar itu per fuot， $\mathbf{4} 30$. | 24，Cumral No 2， |

thursday

| 5 Widd West， 70 per slare，b 30 | 48 Uphir， |
| :---: | :---: |
| 50 fady bryan， 8 per sharo，b 30. | 10 Fout Gould \＆Curry dividend lor |
| 5 Biatic，bs yer thare | Decembir 1135 per fuat |
| Burnii |  |
| rum Mocow |  |
| 68 Burung Moscow， |  |
| ${ }^{6} \mathrm{Bu}$ | 5 Beat \＆Belchier，s500 |
| 50 Burnius Mustaw， 1.00 per ff ， s 60． | 20 Wine Gar |
| 10 Burasing Muscow， 1.51 per ti， 60. | 20 Cunqu |
| 8 Burwing Moscuw， 111 per foot． | 10 Eureka |
| 10 Buruins Mowcuw， 190 per it．a 60 | 20 Ulida，it．H．， 518 |
| 10 Buraing Mlascow， 138 per toot． | 26 Oulda，G．H．：\＄－0，D 30. |
| 244 uphir，$\$ 1800$ per lout． <br> 10 Sheba， 155 per tont． | 35 Sin Curios， 81 10 Wushing |
| 20 clollar， 720 per foot： | 10 Ammericulu Plon |
| 35 Bajaze | 5 Eteria Nuv，un，\＄77＇ 50 p r gharo． |
| 10 Wide West， 70 per share． | 2 Impurial，\＄270 per frot，s 20, |
| 100 Lady Bryan， 7 por ebare，a 30 ， |  |
| 10 Noril Americau， 56 yer share | 5 1＇ioncers，（couper，）\＄5． |
|  | Y， |
| 10 Sllver Hill，\＄13 per share． | 10 Burning Moxcow， 14250 \％ ft ט30 |
|  | 24 Oplir， 1580 |
| 10 Wiue West， 66500 per share． | tet Could \＆Curry dividend for |
| 20 Buckeye，$\$ 10$ per sha |  |
|  | 15 Sitver Hill，\＄12 per siare． |
|  | 28 Lucerne，\＄25 per khare |
| 20 challur | 10 Beu Franklin， 813 |
| 20 chaollar，\＄705 per frot，b 30 | 10 Ben Frankliu， $812{ }^{50}$ per sliar |
| 10 Burnimg Muscow， 160 per $\mathrm{ft}, 860$ ． | 20 Norton，\＄ô per allare |
| 10 Burumg Morcizw， 150 parer ft t so． | 4 Hale \＆Noreriss，s：100 \％foot． |
| 20 Burniug Moscow，$\$ 1 \pm 2$ per foot． |  |
| 12 ophir， 81570 |  |
| 10 Melunes， 85 per sh | pire \＆G．A．Cmisolidatod $\$ 12$ |
| 10 Sheb．， 150 per foot | 10 Cauqueror，R．R．，$\$ 15$ |
| Burning Muscow．， 1444 per foot． | 10 Risiug Sum，\＄10 |
| Buruing Mloscow， 8145 pr font． | 100 Rubicinn， 60 conts |
| 40 Burniug Moscow， 135 \％ $\mathrm{ft}, \mathrm{b} 30$. |  |
| 10 Buruing Muscow， 46 发 foot． | \＄735 per foot． |
| satur | A |
| Josephine，Coso，${ }^{\text {a }}$ \％${ }^{\text {en elare }}$ | 8 Overman，\＄4 |
| 15 Wide We．sh 885 | 20 Baitimore An |
|  | 20 Burniug Morcow， |
| 10 Melones， $8 \% 50$ par slurre－b | 60 Buraing Moscow， |
| ${ }_{1}^{5}$ Uncle sum， 430 per shars． | 30 Burniug Moscow，\＄ |
| ${ }^{12} \mathbf{1 2}$ Opbir，\＄1 | ${ }_{20}^{20}$ Buraing Mo |
| Uphir， 1576 | ${ }_{4}^{20}$ Burning Mosing Moscow，\＄140 |
| ${ }^{36}$ Onhir，\＄1560 \％foot， b | 10 Chollar， 5725 per foot |
| 24 Ophitr，$\$ 1600$ 昭 fuot， 530. | 20 Wushiugton，H，\＄24 |
| Uphir， $15 i 0$ per font． | 4 Bujuze |
| Guuld \＆Curry 4450 pr | 5 Freet 6 |
| Bullion， $\mathrm{GH}, 45$ per share，b 30. Feet fould \＆Curry Dividend lor |  |
| － | 100 Feet Harmon，（El Dorado，co，） |
|  |  |

The Office of the Mining and Sonentific Press，has been removed to Rooms Nos． 56 and 57 Government House，cor－ ner of Washington and Sansome Streets．We have been induced to make this change of location，not only with the
view of securing more room and better accommodations for ourselves，but chiefly to better accommodate persons having
business with the office．Our location is now central，easy of access，and in the direct way of the chief travel of the

Manwg Agenct. - By reference to our advertielage columns it will be seen, that we havo made arrangemeuts tu obtain specinl iuformation, through a rekident corres-
pondent, with restard to any particular mine at Recese pondent, with resard to any particular mine at Rece
Rivor. Parties in the erty about to invest in "feet" in that neigliborliood, and not lavivg time or caring to incur the expense of risiting the locillty, will do well to nvail themselves of the opportutity bereby proseuted in securing reliable information, previous to investment, at a moderate cnst.
Persous already holdiag "feet" and destrous to learn through a disinterested source tbe actual condition of the mine 10 which they may be interester, will do well 10 embrace the opportuaily here preseded of secargs the desired informatins
We shall establish agencies similar to the above in all

## A New and Valuable Book.

Process of Silver and Gold Extraction, former marsger af tho Ophir Works, \&o; s50 pages octavoillustrated.
This almirable work has met with the higliest enmmendations from the Eress and Scientific ment, as a clear and able exposition of the scithee as pracised in Califnr-
nia and Nevain Ter it to good plain Eng ash anv finnly illustrated.


## Tabor \& Hill

## Stock Brokers \& Real Estate Agents,

## 50\% Montsomery St., cor. Sacramento,

Buy and Sell Miuing Stock on Commission. Are mem bers of the San Francilsco Stock \& Exchange Board, aur of the, San Francisco Board of brokers. nov23

## Giffards Injectors,

FOR SUPPLYING OILERS WTTII FEED WATER Fhould be without one of thesy valuable Instiumeats. Send for a Crecular.
je22 Cor. Pine and Front Sts, san Francisco

VULCAN IRON WORKS COMPANY,

## P. Torquet, Manager, <br> STEAM ENGINE UTLDERS BOILER MAKERS,

Iron Founders and General Engineers, No 137 \& 134 First strect, San Francisco.

## Pumping, Hoisting, Maing an uartz-crushiag Machitury,

Machitury.
Sthoes und Dies of the hardest iron,
Russiat iron Punched Screens,
Steamboat Machiuery : Saw, Flour and Sugar Bills, Steamboat Machivery : saw, Fiour and Sug
Hısh and Low l'resuru Bol, ers of all styles. Hytand Low Presuru Bolers of all styles.
Jostal and other Turbine Water Wheils with latest
improvements.


## GENERAL NOTIOES.

## DR, H, AUSTIN,

DENTIST,
No. 634 Washington street, Botween Montgomery and Kearny, (over San Francisco I have recently receired from London a New and which is far superior to any nther ever nsed. It is ligh cleauly and durable, and of a natural color. The clseap est anil best materiul for temparary (and in many cases)
permanent sets. All nperations thormughly performed, permanent sets. All nyer
and at reasomable prltes.

## D ESKS

Office Furniture, OF ALL KINDS...... FOR SALE BY JOHN WIGMORE,
No. 423 Califormia St., San Francisoo. OFFICE JOBBING, of all Einds, attendea to.

## SQUARZA'S PUINCH.

FIRST PREMIUM at the sacramento agrieuluural state fatr also; first prenium
At the Sad Francisco Ray District Agrieultural Fair, 8802
Maxufactort, whoussale axd Thitail
No. 44 Leidsiorfin strcet,
Opposite the What Cheer House, San Francisco.
FREDERICK MANSELL, MECHANCAL \& ARCMTECTURAL

DRAUGHTSMAN,
No. 432 California street, corroer of Leidsdorf
Drawings of Bobexs made forlparties applying for pat
ents at Wushivgtou or Lomdon.
El Paso District, Les Angeles Countȳ,
MINING AGENCY.
C. W. Tappan, general agent,
"Head Q"arters," Mesquit Springs,
Will attend to any business connected with these mines

 The suberither has a carefully prepared map, (and
specmeus, of cach lod in the district a portiou of
many of wheb are fne sate at very low figures. For finther particulars he would refer to J. Bur
met, Eisq o, 405 Ihivis St., San Franciser Cal. EI Faso, June 21, 1863.
C. W. TAPPaN.
R. W. MIYERS, \& CO.,

Chases' New Mill, Fremont Stı, near Market,
JOB TURNING \& SCROLL SAWING. BRACKETS,
RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturers of every description of 0 val ,
Circular and Square
PIOTURE \& LOOKING GLASS FRAMES
For the Trade nt New Yorls Pries.
All kinds of Designs for Building.
R. T. Mrers.

MINING LAWS AND FORIIS
JUST PCBLISHED BY H. H. BANCROFT

Thest of recisinus of the Supreme Court and
the Incorporation of Gomplaies. Complited
the Bookstores.
sepl4

## H. C. KIBBE, IINING SECRETARY,

## Commissioner for Nevada Territory

sia Sacramento st,, cor. Nontgomery (armory hall.)

GENERAL NOTICES
New Patent Agency.

The Patent Agency Business,
 apon us. We bare an Experifnced Ageut at Waibing: on, whieh, together
Mining and scientifie Press Agency The most denirable place to make application for Letter
Patent oo the l'acitic coast. Apply at Uffice of the " Hlining and ccientific Press," Room No. 57 , Gorernment House, corner of Washington and
Sannome streets, San Fraucisco.
EWER \& SMITH.
FOREIGN PATENTS OBTAINED
Sy applicution at this oflee, Romn 57 Gowrumpht House

## NOTICE TO INTENTORS.

aventors wishing to file Caveats should apply at this
Office, Room No. BT, Government Honse. Terms mod:roftice,

## PATENT RIGHTS

Patent Rights Bowght and Sold, $t$ the oflice of the "hlioning and sicientific Press"' Agene
LWER \& SIITH.

## TMPORTANT TO INTENTOHS.

 Joveutors who ottain their Patents through this ome the columns of this paper Fres of charge, they merely furnibling the mogravings. We are aleo prepared to furcare to go to the cxplense of having engravibus preparedcan have therr inventions fully noticed and deseribed in our colnmbs. free of charge. The free use of our col-
umula to nitl inem in introducing thoir tiventions to thie umha to nill them in introducing tucir mrentions to the

## WHEELER'S

Amalgamating and Separating Pans.
It is acknowledged hy all who hare examined the principles and withessed the coperatim of these Pans, that
lbey are dectledly superior for triturating and amalgamating purposes io any other in use.
The most important principle connected with the ope
ration of these Paus is the semarahnin of the trituratimg ration of these Paus is the sepraration of the triturating Wrocuas from that of extracting the amangam from the
sand. The ehiet cause of luss of the prevtonta metuls ar
 cleaning up By the introductinn uf the Splarating Pan
to f llow the trituratioa this loss is entrely atonded. in Wriking these machines there is to apprecintio loss
fuicksilver, and betice nove of tho precious metals.

Where theso pans have been introdued and operated
by the side of others nn sauds from the same vat, the by the side of others nn sauds from the same rat, the
Fhuceler Pius have unfurmly ginined a large prectrtige of metals over its comperitors, as well as a
$1=r c e n t a g e ~ u t ~ t h e ~ a m o u n t ~ o f ~ w o r k ~ p e r f o r m e d . ~$
 inuer's Finudry, in First atreet in tbiss city, where al
aterested are invited to cail aud examho for thumselres gol6-tf ZENAS WHEELER.

## Wm, P, TAAFFEE,

importer and jobber of
Staple and Fancy Dry Goods, CARPETS, DUCK, ETO
Cor. Front and Sacramento streets,
San Francisco.
NATHANIEL GRAY, General Furnishing Undertaker, G41 sacramento st., cor. of web b


METCALF \& HUTCHTNSONTS PHOTOGRAPHC GALLERY,
650 Washington st. Three doors below Kearny.
Having refted the above rooms the Firm are now prepared to fronish the public with a superior styip of
Picture, at a lower price than ever beiore offored in the
card pictures.

duced the price to
$\$ 3$. Per Dozen!

 thin rentes.
Pictures patinted in Oil or Water Colorre, apd.retouched Pictures painted in Oil or Water Colora, and-retouche
a India Ink by a competent artest.

## HUTELS.

International Hotel, FIREPROOF BRICR BULLDING.
camer's Ianding, Eusiuess sta. \& 1 'laces of Amusement
OPEN ALL NIGHT.
City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Fine Bathing Rooms at tneber to the Barber Shop
Warm and Cold shower Buths Free to Guests.
THOROUGHLY RENOVATED AND NEWIY FURand Air. Each room is furnlohed with a first qually Patent sping Bed and Hair matresses. The futernation

Best Furnisien Family Rooms;
 most comfortable, best regulated, and in all respects superior on any like eatablisliment in the state, fud shint iniote meril a couliaulance of he popular farne it has
F. E. WEYMANT, Proprietor.

Tremont Ilouse,
418 and 430 .... Jackson Street, A few doors from Montgomery i] San Francisco, Gial, THIS FINE, FIRE-PROOF BUILDITG OFFERS MANY
 and about the saroe distance from llio prlucipal places of muscment.

The City Railroad Cars pass the Door.
The House is conducted ou Temperance Principles,
WEICE SECURES TO OUR GUESTS QOIET. The prices for board and Rnoms are wery moderate-
by the day, meal ur week. Wh solicit a Calf, fros alia F. E. WEXGANT, Proprietor:

For the acenmmodation of my many gucsts I have ta-
keln and refurnsied tho liternatunil Hurec, nid will cary $y$ on the 1 wo bouns in connection, so that Travnlers
wishing to put up at cuther honse, may take the Tremant or International Hotel Coach and be takeu to either Huuso
F. E. Wht GANT.

## THE RAILROAD H O U s E. <br> Nos. 318 and 320 Commercirl \& Clay Šs., SAN FRANCISCO.

H. T. Felton, . . . . . . . . . . . . Proprietor.

The abore Honse is a Fire-proof bnilding, with Gratrite Front, and kept on the Europenn Plan, wilh hoard and lodging by Day or Weck to suit the convonience of our
The Roomas are handsomely furnished, upplicd with Patent Spring Bels, and Hair Muttrastes, a fiording very superior accommodatices for fanilies or
single persons. single persous.
The Table is supplied with the best the market affords $t$ prices to snit the times.
The Rnil Road House Concb is always in attendance at the steamers to conrey pasengers and therr baggage to he Honke Free of Clurge.
The House is open all night.

## P. M. S. C 0.

PACIFIC MAIL STEAMSHIP COMPANY: road with the steamers of the athatic und Facilio Ateamstip Company at Aspinwall. FOR PANAMA.

The following Steamshins will be dispatched in the
month of Novemuer, 1888 .
Dec. 3 d - - - Steamer Orizaba. Dec. 12th, - - Steamer Golden City. Dec. 23d - - - Stenmer St. Louls.

Will lesve Folsom Strect Wharf, with Passengers and
Treasure, for Panama 9 O'CLOCR, A. M. PCNCTUALLY,
AT $9 O^{\prime} C L O C R, ~ A . ~ M ., ~ P C N C T U A L L Y, ~$ teamatipt for New I urk.
For Freight or passage, apply to
A. B. FORBES, Agent.

FUL゙NURIES \& MACHHNE SHUP'S.

REYNOLDS
Patont Cut-0ff and Governor, FUR STEAS FNIINES.

177 of these lavalumble Machines, ARE NUW IN LEE:
Saving 20 to 65 per cent of tho Fuel.

## Steon's Improved Governor

Clark'sSteam and Fire Regulator,

Ingersoll's Patent Drill Press,

Felt for Steam Boilers, Pipes, Etc.
Steam Engines, Boilers, Pipes,
Anti Incrustation Powder,

A. Howh, Rey. Virsman Cley,

PORTLAND BOHIER WORES.
MOYNIHAN AITKEN,
Boiler Makers \& Sheet Iron Workers
Mission, between Beal \& Fremont Sts,
Sue Franciso


## PUMPS!

HARKIsON'S
California Lift and Force Pump,

A. I, I SIZES

C. H. HARRISON,

Phœnlx Oil Works,
re-15
50 lbs, MARINE and
Fire-Proof Paint, M Works in this city, tor Hallquad dechs if Yesselx



## DIRECTIONS :

For Decks or Ships, use two parta Minoral Paint, en For Botomson Vessels, use oue ourt ground sulphur, ture parts sineral Paint, mix with Coal Tar and apply
it hot. it hot. For salo by allship Chanders add Tradesmen, in boxe 25 POUNDS FIRE-PIROOE PAINT.
Then used on Ronfs, Buildiags, or Fences, it is equa
to covering them with a cont of stonc, beng periectil Firo-Proof, and costing lesis than any paint.

## DIRECTIONS:

HOUSE:-MIx three parts Minernl Paint with one nart
white leid, thiu with Limseed oil: if a lighter colur is
 Le.ul, mix with Liuseot oin. Prat it thack on a tiu Roc
asure cmat when praperly applied will hact threc yeurs. G. T. Fovecr, Superintendent. C. BRADSHAW, Agt.,
works, North Beach; Office, 509 Sa

FULXHRHES D MACHINE SHOI'S.
PALMEK, HANLLUAJ \& CU.
GOLDEN STATE IRON WORKS
So. 10, Fitut Strect, san Francleco,
Furnish Castinga and Machinery of all kiuds

Genulif Wuite Iron Shoes and Dies.
faimer, hansconb \& co.
To Quartz Miners.
K. and Improved

AMALGAMATLNG PAN, wH1

## PALMER'S PATENI STEAM CHEST.

 $T$ Ine arove coshasatun aectrae qhe most

## l'alwhin, fivseoy ern,


The publice nev informed that Letters Patens huve bee
 its sume without his cuntelit. W. A. D'ALsili.R.

Joux P. Gallacher..................Jowsif II. Weed. GALLAGHER\&WEED,
BRASS \& BELL FOUNDERY
LOCK FACTORY.
Fmudry, all kinuls of
Brass and Composition Castings and Finishing, done with neatness and dispatch.


yn Particular attentiongiven to casting Rudder Bra All Jobs promptly attended to.-Prices moderate.

## Miners' Foundry

## MACHINE WORKS

First St., between Howard \& Folsom,

E VERY DESCRIMTION OF TRON AND brass machl

 Earticular attention will be given to the mnnufacture

 $\underset{*, *}{\text { bition. }}$ smill quartietios will be afourded ample fucilitites, fiee of All parties degiring accurate snal highly fisished draw
ings aud Suporiur Machinery, at tousi reanstable rates ings aud suporiur shathnriy, at lowst reasnnabie rate
are cordially invited to call hefore contructing elsewhere San Francisco, February 23, 1863.

## San Francisco Machine

## IRON WORKS!

Northeast conner Fr mont aud Mission Streets.
A LL RINDS of MACIINERY MADE TO ORDER OV


 REPAIRLNG promptly attended to.

FOR SALE
Sau Francisco, July, 1853.

FulNulllis d MACHINE: shops.

## W. T. \& J. GARRATT,

Gity Brass and Bell Founders Cor. First is Market ntson, Sinn Francisco.

Tur Mines of Mexico. - The Eeho du Paciffyne, in an article ou the mines of Meaico,
"It is neeessary to give the Americans their due. No nation in the world has such an chterfyixing athe adrenturous apinit. Whea whe lerk it the fresient develophtant of the Mexican mines, aud when we consider the last, we are astunifined at the listlessuess of One people aml the nadacity of the uther. Fome of these mines which for generations lave remained in ublivion, or have been buried under the mass of ruins which had gathered in them, or have been filted with water, are now re-upened and worked at a profit. The indifference of the Mexican yesterday makes the wealth of the American tu-day.
The ambition of the American, lis pride, and his sovereign contempt of everything but himself, may aliemate the affectiou of other nations, but it is not the les true that wherever he goos fortune accompanies him, life expands and ubundance reigus. Certuinly his manners and laws do not please everyboly; but it must be admitted that nature has gifted hin with exceptional qualites, and that ho is indead the man for our new countries. In his hands the mines of Hexico will exhibit a weulth not yet suspected by the world.
Rotnscumbd has taken four million pounds sterling of French treasury bunds at five per ceat. interest-the whole loan is $\$ 60,000,000$.

Colt's Armory in Fartford made a gun a minute, for ten hours a duy, during the month of October.

Pathat Clanss. - We will furuist, on application, the cluid of auy iavention that has bempatented withiu the if partent years. The nume of the patentee-date should be cont.

Mowbis-Inventors will plense attach to all models sent to ur, their names and address, tu a legible, per manent furm, this will avoid confusion and prevent errors.
Drumings.-We have highly talented and eflecient Braughtsmen, by whim drawiags of every discriptions are executed in the best stgle of art, with promptitude sud at a moderate cost.

## WANTED

By a competent person, the Secretaryship of four Miung Companies. Bocka to be kept ut the office of the Miuing and Scioutific Press, No 57 Goverument House Inquire as abore.

## IMINING \& SCIENTIFIC PRESS:

THE ONLYMINING, MECEANICAL AND SCIENTIFIC PAPER ON THIS

This paper is devatelt to the albove purposes, together with the intercest of sicinnce, Arta, Agriculture and Com-
nerce, and any genernl information tlat may bo of in-

 in inturast
published

The Inventor 1
Will find it an exceillent inedrum for the purposo of bringrag his inveutiou into notice, of ascernuining the Progress of mvention in this and other countries, and
uliso of recuiving any information thut may te neeres siary iu obtuiuing his puteut, the proprictors liaving had
 sis at Waslington that onable them to outrain Patents

7he Mechanic and Manufacturer
Will he greatly benclittcd by its perusal, as its col-
umns will trom timu to time contans origiual eucravumns will trom timu to time coutan origiual euyrav-
ings of now maclines and inventions, togother with a large umnunt of reatimg mater apportaning thereto. We are coustantly reveiring the best scientric jouruals from all quarters, from which we chanll con thaue
to oxtract whatever muy be of benefit or intereat to to extract whatever muy be of benefit or intereat to The Mining Interest !
Will find it ne grear value, as it will contain all the news nypar timutut wining, the prices and sales of M1-
ning Stocks, new in vetsions of Machinery adaptell to liat purpose, ant of evory thing geuerally that may be of ser-
To Chemists, Architects and Millwrights. This jourtal will be iuvaluable. All new discoverios
in Chempistry will be viven, and I Iarge amomit of fuforin Chemfistry will be kiven, and a harge amonnt of furfor-
mation of gleat service to Architects and Millwrights

 agricultural implements, nhat the farmiug iuterest gen-
erally will be amply dsecussed. Names enl be belt in at different times and from
difrerent Post-uffieut Specimen copies will be gentgratis to any part of the country, Con
R 0 .
57, Government House, Corner of Washiogten and Sunsome streete, San Francisco.


And cmmplete sets of books for Cirporations，in the finest
style，at short notice，and low rates．
MINING NOTICES

## Enterprise Copper Mining Company：－

 ing of the Board of Trustes of this company，held De－
cember 12th an assussment of teo cents per sharn was
levied palyble immedialy eight coots per suare，limyable January 1st， 1864, nud anither assesmment of eight cents rer share payable Feb－
ruary 1 st ， 186 k ，all ynyalle in U ． s gold csin，to Thomas


Wide West Copper Mining Company Officu 528 Montgomory street，San Fratuineo，Decentine of twenty－five cents was this day Jevied on eath and
every slare of the capital strek of the Wide Wost Copper Minizg Compang，payable in U．S．gold coin．to the Soc－
retary at the office of the Company，or to J．M．PIKE， Superintendent，Conpperopolis．
By

## $\underbrace{\mathrm{By}}_{6-1 \mathrm{ma}}$

Emmott Copper Mining Company．－No Trusteer of the Emmet Copper Mining Company，held at
 Decomber 3,1863 ，an assessment of tweuty－five cents per
share was levi ied upan eacli aud cvory share of the capi－
 or to L．HONIGSERER 4 ER，Copperopolis．


## ASSAYS！

Promptness and Accuracy Secured
By the Use of the Most Improted Methods of
A N
Advantageous Terms for Prospector＇s Clubs and Mining Companies．
J．H．CHURCHILL，MI．A．，（FRoan Evoopr．）
 ＂HINTS FOR YROSPECTURS＂ 1 ＇ree by Post．

## Mining Shares For Sale

## C．A．CRANE，

Office 28 Government Block 475 shares U．S．Miuiug Cumpany，Virginia City． 910 Shares Griuada Guld and Silver Mining Corapany
Virginia Mi．l，Virgiuia City， 168 Shares Evoca Consolidated Copper Mining Com－ pany，Cresecont Clyy，Cal．
an Shares Mo
Colorado N
30 shares Aspinwall Gold and Silver Miving Company
75 Shares Washington Copper Sining Coropany，Indian ${ }^{7} 5$ ．Shares Wial
228 shares Montezuma Guid aud Silver Mining Com 90 Shnres Oweu＇s County Consolidated Gold and Sllver sining Cumpany，Iuyo District，Tulare Co． 50 Shares Crown Poiut Ravine Gold and Silver Mining 10 sy，
10 Slanres Triunfo Gold and Silver sining Company $\begin{gathered}\text { sep28 }\end{gathered}$
N．LOMBARD INGOLS．
Accountant and Mining Secretary，
No． 10 Governarent Housk，Cor．Washington \＆Sadsom Sts． office of the
Santa Cruz Petroleum Oil Works Co．，
Gem Silver Mining Co．，（Reeso River，N．T．，） Gem siver mining Co．，（Reso River，N．T，）

N．B．Mr．Ingnts will pay narticular attention to the adjustment an compliented accouuts，Commercial and
Incorporated Compunies＇Bonks，to drawing up Commer－ Incorporated Comps nies＇＇Bonks，to drawing ap commer－
cial writing and to Engrossing legal or nther documents With neathess and dispatch．An exprerience of mon
 with its duties．He has the mirivilego ot referring to
some of the leading mereantile houses and legal practi－ tioners on the Atiantic and Pacific sides，for testimon

Hcyor Bros，
76 and Federast
BOSTO 0 ． Heyce Bros．， 406 Battery Biree

## HEYER \＆CO．，

importers of
AERICAN AND EUROPEAN
Fancy Goods，Toys \＆Musical Instru－ ments ；also，
GOAPS，PERFTMERY，HARR AND TOOTH BRUSALS， Pl Port Folion，Yortmonnaies，Ladie＇s Bags，Photugrapid
Albums，Cutlery，Wilow and Piurian Ware，Children＇s Albums，Cutlery，Wwilnw and Piarian Ware，Children＇s
Carriaker，（te．，Our Strck of Vinlin，Guitar and other by one of very firme．and the American by he Rostod
Souse（established tise
Hallet \＆Davis＇Boston Pianos，
Smith \＆Bros＇Harmoniums，and
The Hallet \＆Davis $\&$ Linsley＇s Melodeons，
The Eallet ts Davis Piavos are each rupplied with their
Pateutt Suspensicn Bridge，which is a decided improve

ness and purity．Our Mfllodenns and Harmonjums are of
the beat quality，and warranteul to give sntisfcction． 3 m
AGENTS WANTED．
We want a guod Agent in every city，town and settle
mont，on this Const．Applicants will seund their names With，reference，when specineu numbers of the Min－
ing \＆Scientific Press wil be forwarded to them ing \＆Scientific Press wil be forwarded th them，
and their names added to our published whist or Axenta．
$E W E R$ \＆SyiTh

Owens River Canal Company．
FOR SALE，
FOR ACCOUNT OF TEE COBIPANY， 7,000 SHARHS OF
 promice of the Company No． 328 Montromery street．

## REMOVAL．

OFEICE OF THE PACIFIC MEPRAL Haviug ealarged our Works at North Beach，we are Gow enabled per day．
Gold and Silver ore，and Sulphuret Assayers＇，or Sil versmiths＇swcenings reduced or purchased．
CO1PER OBPS－Higheat market rates ad eash，for shipmpnts，S．C．BRADSHAW，Aqent，
509 Sncramento street，near Sanaome

जルNING こえスリS．
OWEN＇S RIVER CANAI COMIPANY
Capital Stock
．9．．．．
$\$ 1,000,000$
10，000 Shares ．．．．．．．．\＄100 per Share．
$A$ Portion of this Stock is no ofrered $t$ EULL PATD AND UNASSGSSABLE
Snock，nlso Assessable Stuck，can be obtained of A．J
DOWNER \＆CO．，the authorized Agents of the Compauy
406 Montgomery steet．

President
Scerctary
Treatsarer．．
Supermetendont
R．S．WHIGFAM，formerly ine

## WIILIAM FLEMING．

SPEIR RIDDEL．
ISAAC SWAIN
ILLIAM P．PRatt．．．
Office of Company 388 Montgomery street
ARMSTRONG \＆WILDER virginia city，n．t．
SEARCHERS OF RECORDS for Mining Claims \＆Real Estate．

RELIABLE ABSTRAOTS
guaranteed at reasonable prices． LETTERS OF ENQUIRY promptly answered．

## ALEXANDER STOTTP

MINING SECRETARY 612 Sansome Street，San Francisco．

Honse Sior，Silver and Copper，Monte Disblo． 1）Ausc Wrirckr，Goll and Alver，Deriv＇Gate GEsizal Jacsson，Goly and silver，Jevil＇s Gate
Figaro，Gold and stiver，Alpide District．

T．C．Sanborn \＆Co． STOCK BROKERS，
No．630，Montgomery Strebt．
$\mathrm{O}^{\text {phur silver minng stock，}}$
GOULD \＆CURRY MNING STOCK，
chollar mining stock，
calffornia steam navigation co＇s stock， BOUGHT＇\＆SOLD．

## NEW MILING AGENCY．

## $W^{\text {E }}$

E HAVE MADE ARRANGEMENTS WITH A SPE－ which any infurmation nitainablo with regard to any
particular mine in that localily can bo obtilned，for the

Private Bometit of Paxties in this City or elsew here．Our correspandent will visit
auy mino which may be designated and report upon the auy mino which may be designatcu and report upon the general charncteribtics and condition of the same．the
amount of work which may have been done，otc．A rea．
sonatio fee will be required for such service．For fur－ ther inforimation apply at this Ollice， EWER \＆SMITE．

## L．F．LELAND

STOCK BROKER， No． 621 Clay street，
Onfice Hours， 10 to 11，A．M．；2y／2 to $3 \frac{1}{2}$, P．M． Member of the San Franciscos Stock and Exchange Board

## AGENCY

For the Purchase and Sale of
MEXICAN MININGSTOCKS
$\mathrm{O}^{\circ}$
FIFE OR THE PRNA AND LA MARRONENA SLL－ California， All persons are iovited to call and examine Ores from the above mines．

New Bedford Copper Company．



Seeathing Coppra；
Brazier＇s Copper；
Copper Bolis；
Yellow Sheathing Metal；
Copper and Composition Natle；
Which they ofier to the Tracie at the lowest market Which they ofrier th the Traite at the lowest market
rate，and on the most favorute termo
MORGAN，STONE \＆

BUSINESS CARDS

## A．C．MORSE， Mrining and Real Estate Agent，  and SELL alda bistrict <br> GOLDEN AGE G．\＆S．MINING CO． Austin，Reese River， <br> OFFICE， $5 \%$ Goverment House．

 WM．POOLER，SEC＇Y．Fire Hose！Fire Hose！！Fire Hose！！！ J．P．D．WILKINS，
The eelebratod HARVRSS MAKKR of Stakton，make trint of the Weber Steam Eugne Co．，No 3，of the ent seut ton．This hoso 15 manuracted at his establai qquare inch；as certifield by the Chief Engiue

ALSO FOR SALE，
All kiuds of Haryess and Saddlery，at the lowest can pricen．Repajking
Matus Sitrat Stable．

## WANTED，

Gold quartz nutablefor cutting Jewelry，

By FRONTIER A．DEVIERCY，
THE EUROPEAN ORE REFINPNG
COMPANY．
Quartz Mill and Farnaces，Bryant Streot
Crossing Third，San Francisco． RECEIVE ALL KINDS OF
ORES AND MINERALS
In large ur sm
LATES EUROPEAN METHODS，
CAREFUL ANALYSIS，
At their works，to be the most Effectual in obtaining re cious Metals they may contain，intn marketable Ingota Ner The South Park，and Folsom aud Kearnystreot Car pass Bryant street．

## The Pacific Mineral Compnay

M
Copprr，Silvfr，Tin，Niokbl，Cobalt，Zino
Lead，and Sulphurets containing Gold． me account tirk on valuablo inetals combine
Parties owning undoveloped mines and desirlng capita o proppect the same will receive aspistance，if，upon ex aminution，such leads are deemed sufficiently valuabl justify such expenditure．

OFFICE， Na 1 ，ODD FELLOWS＇HALL，
je1－t「
Mantgomery Street，SLin Francisco．
MARTIN \＆Co．，
ofrice．．．．284 Montgomery Streot，Up Staira，
will contract for the

## Purchase of Copper Ores

Assaying 8 por cent and apwardo of Crpper to the Ton We will make ADVANCES upon Ores of COPPER，TII Sueks will b
Igumouta if dosired by the conaigigorss．
Henry Martin，
J．F．Greanman
San Francisco Post Ofic 3, Box 1259.
je 1.
NORTH BEACH QUARTZ MILL

## REDUOTION WORKS

## Aro prepared to work Gold and Silver ores，in largo o

Wurking asseys made of small lote，uad all kiads
Our new and romplete Machinery，will exnble us
ive results fully up to the morits of rook．
WHEEL．ER \＆THAYER，Proprletors．
San Francisco；Oct，18，1868．


A JUURNAL OF MININd, MANUFACTURES, SCIENCE, ART, CHEMISTRY, INVENTIONS, ETC.

## VOI. VII. SAN FRANCISCO, MONDAY EVENING, DECEMBER 21, 1863 NO. S.

## ENLARGEMENT AND IMPROVEMENT

HE THE MHSING AND SCIENTIFIC PRESS.

The pultivatrs arepleswed in annuluce the enlargement of this jourma on the ed of Januay next, from eight to sixtenn pages-double ta pres. ont slzu.

## NOTiCE.

 C. W. 3. Syitu, W. B FWEt, W. B. FuElt,
A. Duwey

## taxing the mines.

The Secretiry of the Iuterior, in his report, a synnpsis of whicl has been received hy telegraph, still persists in his favorite theory of taxing the mines. The Secretary states that at the time of the discovery of the great mineral wealth of portious of the pululic douain, the nation was in the eujogment of domestic tranquility and unrivaled prosperity and could well afford to throw opea her rich mines of precions metals to the unrestricted enterprise of the world ; but having now been forced into war for the preservation of our national existence, as unexampled iu expense as in magnitude, the question as to whether we can, in justice to other branches of industry and enterprise, longer exenpt this immense source of iudividual revenue from its equitable share of public burde becomes of much importance. A small proportion of the profits on gold miues would largely increase the meanis of the treasury, and as no good reason seems to exist why the nation should not, in its hour of need derive some direct assistance from its extensive fields of gold and silver mines, he earnestly presses the consideration of the subject with a view to that end.

By the provisions of the income tax the mines of the Pa cific Coast are already taxed in proportion to all other industrial pursaits, and we do not know that auy serious objection has ever been urged against suclı a poliry. There is tuo disposition on the part of the miners of California to seek exemption from their just proportion of the burdens which the present uuhappy war proposes. No especial tax could well be imposed upon the mines except in the way of licenses. and such an impos tion would most nssuredly result in producing a falling off in the gield of the precions metals, which would work a far greater damage to the general interests of the governament than could possibly be remedied by the direct income it would receive from such a source.

The benefit which the General Government is even now reaping from the mines of the Pacific Slope is by no means confined to the three and five per cent, income tax already imposed. The credit of the Government could never have been maintained at anything like its past and present slatus bad it not been for the millions of treasure which are go ng formard every month from her mines on this Coast. Without this constant supply of gold, government paper would not today have been worth more than one half its present price It cari scarcely be considered extravagant to assert that the mines of California are actually beuefiting the government pecuniarily each month, quite as much as an income equal to the entire yield of the mine for that period would do, if drawn from the ordinary sources of government sapport. It is only by keeping these mines open aud free to all that this gield can be kept up to its present standard. Impose such a tax upon the mines, as is indicated by the Report of the Secretary of the Interior, and the falling off in our monthly yield of the precious metals will affect government securities to an extent many times greater that the entire tax which can possibly be collected. Let the goverament beware least, by tamperiug, it kills the goose which lays the golden egg:

Avotiner Ritil Instuvery-Pbriaps.-"Cosmos." writing to the Bulletin, from Vivginia (ity, under date of Dec. 12th, says that "rumbors are afloat respecting a new strikeanother: Comstock. The ore is of the same character, and assays $\$ 6,000$ per ton. I will say nu mure on the suthect till I find out more ahout it ; and hesides, you Sau Franciseans appear to have about concluded that you don't care much about having anything more to do with "feet," auyhow. Sereral new developments are being brought out in the range below Guld Hill. The one in the Uncle Sain and Mary Ann gives great encouragement to those hulding interests in the line, thongh distant."
Mineral. Wratifu of Utam. - The Guvernor of Utah, in his Message just communieated to the Legislature, speaks glowingly of the mineral wealth of that region, and recommends the immediate adoption of the general laws of Califorwia on the subject of mines, the incorporation act of that State haring stood the test of time and experience. It pays a just tribute to the efficiency, energy and valor of the California Volunteers, and recommends the erection of foundries for the manufacture of iron, from native ore, for the Pacific Kailroad. The finances of the Territory are in a good condition. There is now in the Treasury a balauce of \$26,799.
New Invention in Picture Coloring. - Herman M. Bien, of this city, according to the Alte, has applied for a patent on a. newly discorered process of coloring common photugraphs with oil colors, in exact imitation of nature, which he denominates Photoleneography. The pictures treated by this process have a sharpness and clearness of outline not attainable by the water color process, and, it is claimed, will retain the color unfaded for any given length of time. For copying specinuens in botany, etc., this process would seem to be of great value. The inventor clains that he can color one hundred likenesses by this process in a single day, and bave each one a perfect picture.
Opposttion Straner Day.-The Pacific M. S. Co's Steamship St. Louis, and the Opposition steamer Moses Taylor, Ieare for Panama on Wednesday, December 23 d.

## A Reese River Mill.-The Reveille has the following,

 in regard to a week's crushing at the Fountain mill, in Jacobsville : Some Yankee Blade ore yielded $\$ 425$ to the ton, the bullion from which can be seen at Hayne's saloon in Austin. Amador ore yielded still more, but we did not obtain thee exact figures. The Emma Funstun, the rich rock being taken from which we alluded to in a roceatissue, worked up to the enormous sum of $\$ 2,700$ per ton. During the week this mill has worked ore from the Nonesuch, Marengo, Samantoa, Duukirk and Silver Eagle, but complete returns lave not yet been made. It may be $s$ ated, however, with a certainty, that the yield of none will fall below $\$ 200$ per ton, aud in some will be nearer $\$ 2,000$.Pigs of load, with the bame of the Emperor Fadrian upon them, are suid to have been found in the Island of Sardinia, where the Romans, as is well known, had important metallurgic establishments. The Marseilles house, Bouquet, which owns extensire mines in the island, has made a preseut of these pigs to the miuseuna at Cagliari.

## [From our Traveling Currespondent.] JENNX LIND.

Mr. Editor:-In my last report I stated I had at last got through both the valleys, and had only to take from this place back to Copperopolia. The mines I shall speak about after finishing those in Jenny Lind, lie west of Copperopolis, a portion of them belonging, to the Gopher system, and the bal ance distinct by themselves running down the walley to White's Ranch, where the Stockton road intersects it, bet ter known to the public as the "Four Springs."

Jenny Lind is a small Mining town on the banks of the Calaveras River, where a short time ago there were some very rich placer diggings. It is somewhere about thirty miles from Stockton: Considerable money circulates at times there, I am told; and it is destined, I believe, to see a brighter day than ever, when its copper interests are more matured asd developed; for it cannot be devied that so far as external indications go, the leads show themselves here boldly and strongly; while the result of the work upon them which so far has been done, are by no means unfavorable. In locating the leads at Campo Seco, Ilaid down a course for the Gopher systera, which would bring it through Jeney Lind, and I find strong evidences in every direction of the correctness of that location. These I shall briefly mention as I come to them.

A gentleman by the name of Macclebee was kind enough to accompany me the first day. Crossing the river at the town, and after proceeding some miles to Rich Gulch we found the
dehlonoga.
It contains 2,250 feet divided into seven shares. The croppings and opening here are very good. The rock carries mundic largely, and looks well generally. Work to recommence immediately. Next to this, quite ncar is the

## Water privilege.

It contains 3,600 feet, divided into 3,600 shares. Here they are running a tunnel from Rich Gulch, and from the excellent appearance of the rock cannot, I judge, have much farther to go. There is also an immense body of mundic here. This claim looks, well. Not far from here is the

## re dorado.

It contains 5,400 feet, divided into 5,400 shares. Main shaft forty-six feet deep; at present full of water. I do not like the location of this shaft, not being suitable for future work. The rock looks well, and shows a strong vein. From this claim something over a mile south is the

## маммоті.

It contains 4,500 feet, divided into 4,500 shares. Main shaft sixty feet-deep. This claim is looked upon as the claim of the place, and certainly the croppings and opening are splendid. The rock also is very pure, strongly impregnated with yellow sulphurets. They have, hqwever, sunk down too far west, the lead having already dipped out of the shaft. They are still sinking with an intention to drift east. I cannot see that policy. The labor they have done since the veiu dipped, and the labor they must do before striking it again, would have put a new shaft down on the lead all the way. This will however be a good claim. About onehalf a mile east from here is the

WALLOP.
It contains 4,500 feet, divided into 4,500 shares. Main shaft 98 feet. Work being suspended I could not go down, for water. The croppings and opening are excellent; rock pure, carrying much mundic. Altogether it looks well. Next, still going east of south a mile or more is the tectonia.
It contains 7,500 feet, divided into 7,500 shares. Main sbaft seventy feet deep, showing a well developed vein and foot wall. Everything here indicates future success. I have formed a very good opinion of this mine. It closely resembles the Collier of Gopher. Out-buildings good. We turn right about here for a short distance, and then come to the lafferrty.
It contains 3,600 feet, divided into 3,600 shares. Main shal't eixty feet deep; croppings and opening good. Rock pure. Work suspended, to be recommenced the following week. Still continuing back towards the Bushville or Rich Gulch for some distance, we reached the

## acacta.

It contains 2,700 feet, divided into 2,700 shares. Main shaft 46 feet deep, carrying a strong vein from one and one-
half to three feet thick. It is by no means pure yet, but only
wants depth. Close to this, also under the direction of Mr. Gage, is the - wyandank.
It contains 3,200 feet, divided into 3,200 shares. Main shaft 88 feet; with walls eight feet apart. It opens well with gossan, and shows streaks of mundic, lower down, one foot thick; strongly impregnated with yellow sulphurets. This claim looks well to be a winner.
On the following morning Mr. Brush, an old settler, in Whose honor the village was named, piloted me round; and like myself, soon found this copper-mine-visiting among the hills is not quite so pleasant as making New Years calls, On a sultry day it starts the dewdrops. After a long walk, however, we succeeded in reaching the
PLTMOUTH ROCK.

This claim contains 1,200 feet, divided into four shares.
It is a second edition of the Hughes Hill claim, Gopher District, only they have put up a large building with an arrastra to crush the surface rock, clay, talc, gossan, etc. It averages twenty-five dollars to the ton in gold. With their facilities of crushing and getting the rock this ought to pay well. The mill is worked by water-power. In connection with this claim, on the north side of the hill is the
digeton rock.
It contains 4,800 feet, divided into sisteen shares. As I have said already this was in connection with the above, only the company here are working for copper. On the north side of the hill they have rum a tunnel 160 feet north; probably 60 feet more ta go before they cut the vein. Their level will be 180 feet below the surface. Everything indicates the vein to be as strong here as at the Hughes' claim, and I am greatly mistaken if in the end it is not a splendid mine. Near the south side of the hill, a few hundred yards off, is the

It contains 6,000 feet, divided into twenty shares. Main shaft 45 feet deep. Here the foot-wall is well developed, with indications of a thick strong vein, probably four feet thick. I consider this a promising claim. Reaching the river, and going out of town, north-east some two miles I found the
jenny lind.
It contains 5,500 feet, divided into 5,600 shares. Main shaft seventy feet deep. Like all the claims in this vicinity the croppings are very handsome. There is unquestionably a strong vein; bat whether they will strike it in the present shaft is problematical. This sinking on low ground, expecting thereby to strike copper quicker than elsewhere, is a fallacy which has injured the pockets of several companies in this section. Keep off of low spots and allow forslides, is a good maxim. The rock in the shaft is so rent and twisted, no man can tell which way it really dips. On the opposite side of the river, I think the water has opened the vein to veim. Were I interested here I should examine that closely and be guided by it. My opinion is unfavorable to success in the present shaft.

This completes the Jenny Lnd list. Upon the whole, the mines look well. They are not developed as much as others because they have had no help from capitalists, but the day is not far distant when it will find its way there. I cannot close this account without mentioning an act of heroism, or rashness, performed here by a lady, which beats Blondin. Across the river a little above the town, the water company have a suspenison flume cousiderably over 200 feet higt. Before the pipes were put down, some ladies and gentlemen were examining the works, when a banter was given to walk across. 'The platform at the most could not be more than one foot and one-half wide, yet nothing daunted, the lady started off, walking across and back again, without a quiver or a halt. What made the feat still more fearful was the fact of the platform having canted in the centre, so that on coming there, she was obliged to walk side-ways. The lady is now married and keeps the Jenny Lind House. If she can't " keep a hotel," where's the woman who can?
Leaving Jenny Lind, I take you to Black's Ranch. This is a continuation of Gopher, being only a mile from the New York claim. The only developed claim here is the morphy.
It contains 2100 feet in single shares. Main shaft 64 ft .,
howing a strong vein, nearly twenty feet wide. Rock somewhat corrupt. The walls are very singular; I think they will have to go deep, but they have strong evidences of cop-
per. Near here are quite a number of undereloped, but promising claims, worthy the attention of capitalists. I cannot do more than name them at present. They are the Mun roe, Jefferson, Emerald Isle, National Ledger, Virginia Pine Grove, Rabbit Hill, Elephant, Josephine, and a gold quartz ledge, Buena Vista. This little, out-of-the-way, ob
scure conner will make a noise some day. My obligations scure corner will make a noise some day. My obligations
are due to Mr. Black, who is very intelligent, gentlemanly and well posted in copper feet. From here to Mr. S. Oohen's store is about three miles, where I found the salt bpring valley co.
It contains 3150 feet, divided into twenty shares. Main shaft 70 feet, carrying a. good vein all the way down. This claim is very important, and excites much attention just now ; for, although started for copper, it is supposed to be silver. Of the latter rock, I do not profess to be a very com. petent judge ; but, if in so essentially a copper formation a this district is, it is possible for a silver lode to exist, thin must be one. At present, it certainly is not copper. Mr. Cohen intends to sead a large lot of this rock to Mr. Clouser of jour city. I hope he will give the Press the result About a mile from this is the

```
Harlex.
```

It contains 4500 feet in 30 shares. This claim once reach ed as high as $\$ 5,000$ a share, and it is now lower than it ought to be. All the former work in the old shafts down as deep as 100 feet, was in serpentine rock, and you may as well expect to find gold bearing quartz with horn blende a to find copper in serpentine. I know, very well, copper is found up to the base of this associate; but never in quan tity. My opinion is, the copper miner had better becl against a monte bank than serpentine rock, from the one he may get perchance a stray dollar ; from the other, noth ing. A caretul examination of the Harlem confirms thil opinion. I was glad to find the Harlem people had com menced a new shaft, altogether away from the serpentine where they have a good prospect. The present shaft open well, and looks promising and hopeful. I have to acknow ledge Mr. Westby's particular attention to me. Continu ing from the Harlem down the valley, a mile below White ${ }^{\circ}$ ranch, is the

## wan.

It contains 3750 feet in 25 shares. Main shaft 54 feet with a very handsome rock indeed. It is on the Harler, lead, and lies west of Copperopolis about two miles. I ought to have been incladed in my second letter, but at that time I did not know of its existance. T'e rein looks wiel carrying yellow sulphurets. It is by all odds too importin to be overlooked. Below this claim is another, called the MAMMOTH.
It contains 6000 feet in single foot shares. Main shal commencerd, ouly twelve feet deep. Croppings gtod. Roc taken out shows strongly of mineral, and some yellow 部 phurets. Mr. Ring is superintendent ; work suspended ti next spring.
I have still three claims to mention, two of which ought 1 have been noticed in my first letter, but I did not know if them then ; the other at that time had not been locate The first is the
intmitable.
It contains 3000 feet in single foot shares; with hn shafts, respectively 30 and 40 feet deep. This is one of th early locations, but only recently attended to, or thoug much of. It runs parallel with the Union, on the east In the first shaft they got good rock; in the second, bett Joining this claim, running out of town south, is the

## metropoidtan.

It contains 3000 feet in single foot shares. Main shaft feet deep, showing excellent rock with yellow sulphurets jo appearing. 'The importance of these two claims consib to a great extent, in the fact that they will solve the proble of the linear course of che Union lode, through and diately south of the town. If the Keystone people g good copper out of their side claim (east) which would a continuation of these claims running north, as out of t old discovery shaft, and it is known they do, these clair become necessarily of great value. A s I look at it, the Kit stone thus becomes the great claim of the district, and she two eventually of corresponding importance. So impress is your correspondent with this opinion, that in connex with Mr. Stoddard, be has located 2200 teet in continuati of the Metropolitan, on the south end. With the indicatio of that claim, so far as the work has gone, we have eve reason to be satisfied. Adjoining this latter claim is the index.
It contains 2200 feet in 15 shares; in course of incon ration and being opened.
I have now finished the copper claims of Calaveras couni as far as practicable. Some few, I know, hare been omitt which I was unable to visit on account of the weather, cireumstances I could not control. I can truly say I hif not inteutionally omitted a single one, laborious as the wh has beea. Whatever I have said of each claim, I hare si in a spirit of justice, unbiaved throughout by any m. Some little mistakes there may be, but upon the wholt believe, I may claim to have given a copious and correct count of the present condition, and future prospects of es mine.

THE AQUILA AND HER CARGO.
The San Francisco Chamher of Commerce beld a special meeting on F'riday last, to cunsider what st.ps, if any, could be taken by that body to further the ohject of saving the Commanche, so needful for the defence of this barbur. During the deliherations it was made to appear, to the apparent satisfaction of the Chamber, that if the materials of the Commancbe, could be landed from the wreck, properly and promptly ulthough some part: of her furniture, etc., would be destroyed aud other parts much tarnished, still the stip might be speedily re-constructed, and placed in a proper coudition for the service, for which she was originally designed. Mr. Ryan, one of the cuntracturs, who was present stated to the Chamber, that the contractors were ready to go on and complete their contract as soon as the material was placed upon the wharf. Mr. R. further stated that insurance to the amount of 8400,000 had been effected upon the Aquila and her cargo which had been transfered to the Government on account of advances made on the coutract.

From this statement it appears that the Government has not, in this instance, departed from its well known custom, of never insuring against losses. It merely holds the policy issued to another party as security for advances made. It further appears that the difference of opinion, among the underwriters, with regard to their liabilities in the matter had not been settle l, so far as known, up to the hour of the above meeting.

The Chamber having decided that it was proper and exped ent that they should take some action in the matter, the following resolution was adopted as a preliminary step:-
Resolved, That a Committee of Five be apponnted to confer with the Underwriters' Agents in this city, and with ather persons, if neccessary, and to procure a written statement of all the facts that have been developed concerning the situation and condition of the ship Aquila and cargo, as they now lay, and also to procure a written statement, as authoritative as possible, of the respective claims and liabilities of the parties interested in said ship and cargo, both of which written statements to be submitted to an adjourned meeting of this Chamber, to be held on Monday, the 21 st inst. at 2 o'clock, P. M.
It is to be hoped that some deffinite action will soon be agreed upon, by which the Commanche may be landed and put up as speedily as practicable. We presume that no well informed person entertains a doubt, that had this wreck been private property, in the hands of energetic men of means, and not complicated by an uncertainty of ownership, the materials of the Commanche would, ere this, bave been in an advance progress of landing. To think otherwise would be an unjust imputation on the skill of San Francisco Mechanics.
The Earthevake, on Saturday afternoon was the severest which has been experienced in this city for the past eight years. Two shocks were felt-the second of which was much the most severe.,. They were accompanied with the usual rumbling noise, which at our point of observation, in the rear of the third story of the Government House, was quite as distinct and loud as would have been that caused by a heavy lumber wagon driven apidily and violently oven the cobble pavement in the street.
Ir is said that California produces but little corn, the soil not being adapted to its culture. Most of what is raised is consumed while green, at the table.

TEE
BRYAN BATTERY.


 Who have hat nay practical experfence in tho matter
Hat every new process develoged duriug the phat I weive Shars, hat bey
Stamp Butlery

## ALONE STANDING THE TEST.

Thif, with the Improvements which Experience han angrested. Is u
ouly rutinblo

METHOD OE CRUSHING ORE.
Trs Bryas Batterr, as now conatructed, fo helieved to combins alt the improvementa which thas afforded. They have been
of the

## EXCLUSIVELY ADOPTED

by many of the most prominent Mining Companies in the country, aud have been, for the three past ypars, sub
fected to the mowt severe of alf tests-lhnt of constant jected to the mont severe of alf tests-that of
use-and in every case havo bean prounanced

## Effective, Substantial axd Relubiz.

They are now extensively used throughont the minernd reginns of Catiforuia, Nevala and Mexicn, and equalled in any pioce of mining machnery.
Those Mills aro constructed almost entirely of Iron, and drynss of atmnsphere, common to all miviog local-

## BOTH WET AND DRY CRUSHING,

and are warranted to reduce, with the same weight of Stamps, 25 per cent, moro rncls than noy other mill in
use. Eachi, Battory is complete io itself, and forms a perfect inil'- while any number of them enn be added
at a sulisequent time--ilus preserving the symoetry and at a sulisequ-nt time-1l2
uniformity of the sfill

As an evidence of the increasing fovor with which these mills are regarded, we wnuld mention that the heir works in 1880 , and liave been adding a number n Batteries, each subqequent year, until they now have inetcen, rubning Seventy-six Stamps
They are perfectly fitted and set upat our Works, be ore shipping, eack piece boing marked and numbered
so that they call be put up and spt at work in ten hours after nriving on the ground. They are madle of two si-
ges, four and five Stamps each. The Four Stamp zes, four and five Stamps each. The Four Stamp
Battery weighing complete about 6.000 pounds, and the Five Stann abnul 7.000 . The Mortar Bed ueing packed over any monntam road.

We nnnex the names of " few well knowd Companies who have adopted them-r rnning from four to seventy

Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico, John D. Winters \& Co, Esmeralda Crown Point Co., Gold Hill,
 Tiva Mrining Co: Noizio,



 Emion ourtuct co. Aumm Thimino Mriniz Co, Niesico,

 W.R. Wilur sprimes co, (anoo
 1.


 Sind

## MaNUPACTURED oNLY BY

GODDARD \& CO.,

## At the Pacific Iron Works,

SAN FRANCISCO.
of 195 to 136 Firgt atreet, and 126 to 144
E

[^15]
$\square$
I. O. E. KLepZig \& CO.,

GUN MAKERS, DEALERS IN GUN MATERIALS, 733 Washington street, san Francleco,
[Unc floor above Kesruey strect.]

Reparing done in a workinanlike manaer at the ahorGildivg, and also Silver Plating, by E. Bkisnd. Je21

## LEANDER RANSOM, Civil Engineer And

SURVEYOR, Having been counected with the public works of the State of Olio for 20 years, and the public surveys of the State of California for 7 years.

## ALSO <br> STATE LOCATING AGENT.

And as such laving the sale of 600,000 ACRES OF STATE SCHOOL LANDS,

Terms-Twenty por cent in cash and the balance
on a credit of several years.
OVFICE, 328 Sontgomery atreets.

## D. NORCROSS,

Masonic Temple, No. G, Post Street.
Military Gcods of all Desoriptions.
Navy Trimmings and Embroideries.
REGALIA FOR ALL ORDERS.

## MEAD \& VAN TASSEL; HATTERS,

Hontromery st, cor. or comméretal,
$T 10$ OUR FRIENDS AND THE PUBLIC GENERALLT. Having Purchaged the entire interest of Messrs
Fisher \& Co., in this city, we shall, on the 1st day of May assume the inanagement of the
H AT EMPORTUM,
solong conducted by that firm.
Mr. Willuas H. Mesd, for the lart seven years Sales-
 tinuance of the patronage sn long and liberally bestowed
upou the oll House, feeling entire confidence iu our abil ity to suit in every particul ir.
Mr. THEODORE VAN TASSELL, for eight yeats with
Messrs Le Galy \& Co, would be pleased to seo his friends at his new piace of business.
The long practical experience of Yessrs Mend to Tassell in the Trade justifies them in saying that their work cannut be excelled either in fininh or durability
Having perfected arrangements, we sliall be in constuit Having perfected arangements, we shall be in constant
receipt, by every steaner of soft gools of the very tinest French nud Amorican ! Mannfacture.
Our Stock now on hand is supert.
Call and examine, and jut, ge of the merits of our claim o the title of "L
Respectiluly,

Respectilliy,
MEAD \& VAN TASSELL.
RIEHN, HEMME \& 00. ,
ASSAYERS.
Offioe, Montgomery street, cor. of Californis

## Assays Made of ores, Mininerals and Metals.

kergrred wit pernassion to

Chas. F. RIEAN, late U. S, Branch Mint, gives Lessons io Asseying, also in Mineralogy and Chen
quired to becnme a practical Assayer.

## G. E. MOORE, Assayer and Analytioal Chemist, <br> \section*{No. 61/ Sucramento Steet,}

 cal work, is prepared to execute the Assay and Aualysis
of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch.

## REFERENCES

Prof. J D. Whitney, State Geologist, San Francisco
Pron. J \& Ca, Sun Francisco.
Alsop
Sather \& Church, San Franci
Sather \& Church, San Francisco
Joha. Parrott, San Francisco
D. O. Mills, Sacramento.

## PEOPLE'S

OPPOSITION Steamship Line! Spectal Notice, The Steamers of this GlRFAT REDLCTION IN RATES

Tho Fast and Fayorito Double Engine Stoomship, MOSES TAYLOR,
 Will be dispatel for PANAMA. From Mission street Wharf.
WEDNESDAY, DKCEMBER 23, 1863. Connecting at A-pinwall, by the Pumams Raitroad, with the Epleadid Ster maship
ILLINOIS .

## 2500 Tons.

The Moses Taylor, since ber lint trip bas undergone the most extenaive repmira, Her decks hare been ex-
tended forward and aft; cabink eolarged, rentied and repainted throughout-makitug her accomotationa equal For furlher information.
No. 407 Washingtop Street, San Fitive San Francisco,
Opposite the rost Office.
BOOK KEEPING, Penmanship
OOMMEROIAL OALOULATIONS, Taught by J. S. LUTY
PRACTIOAL ACCOUNTANT,
305 Montgomery street, Corner of Pine.

## TO QUARTZ MINERS.

A chinersons interested in Mining Maexmmine my improved Amaigamator. It is unquestionably superior to any thing now known for amalgamating Silver and Gnid. It works 1000 pounds at a time, and
will umalgamate over three tomar aday. By the molion of the recolving muller, the juip is drawn through its centre and passes under it, between the grinding surfaces, to the circumference: from whence it passes again
over the muller to tue centre, through the holes add boover the muller to the centre, through the holes add be-
tweon the grinding surface to thu circumference us between the grinding surface to thu circumference us bso
fore. Thus a coustant circulatiou of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpabla
powder.
Noquicksilver lies between the nurfaces to be ground, No quicksilver lies between the surfaces to be ground,
but at the circumference and centre of th pan where the but at the circumferenceand ceotre of th pan where the A patent was granted for this Amalgamator cember last, and all persons are again warnod agaiust purcliasing machines made at the Miners' Foundry called - Whecler's Amalgamator," as they are an infringemeat cuit Court agninst the marties infringing the U. So Cur mators can be seen ruuning at Donahue's Foundry, where style in which they are being manufactured.
seg21
THOMAS VARNEY.

## PATRONIZE <br> HOME MANUFACTURIES!!!

James Longshore,
Trunk and Valise Manufacturer,
307 Eansome Srect, under Tehama House. Trunks and
Valises, Whulesuleand Retail, Fine Sole Leather Truaka Valises, Whulesule and Retail, Fine Sole Lenther 'Truaks,
Valiscs, aud a tine assortment of LADIES' TRUNKS constantly ou hand. Trunks covered and ropaired.

## APARTMENTS.

FURNISHED APARTMETNS, WITH, OR WTIHOUT解, and home will do well to apply.

## D. MORRIS, MAOHINE SHOP, <br> 227 Market, corner of Beale Street.

Manufacturer of
WARRANTED FIRE-PROOF SAFES Mil Work, of all khds made to order, All kinds of
jepaising done at moderate prices. Repairing done at moderate prices.

Drawivgs.-We have highly talented and efficient Braugltsmen, by whom drawings of every discriptions aro executed in the best style of arl, with promptitude and at a moderate cost.

## WANTED

By a competent persou, the Secretaryship of tour Mining Companies. Books to be kept at the Office of the Miniog and Scientific Press, No 57 Government House Inquire as above.

,
2
-







## SILVER MOUNTAIN DISTRICT.

Silver mountain District is situated on the last range of ', the Sierra Nevadas, near the eastern boundary of Amador county, being abunt forty-fire miles from the Big Trees and sixty-fire from Virginia City, N. T. The Big Tree and Carson Valley Road Company are building their road to Silver Mountain District, which will be fiuished by the first of May next, having only two miles to complete at the Silver Mountain end of the rou e. This road leads from Stockton, tbrough Murply's Camp and Big Tree Grove to Silver Mountain, connecting them with the Carson Yalley Co's Ruad which is nearly completed from Markleyville. This will give uninterupted communication from Stockton to Virginia City by stage, tapping the Monitor, Alpive, Mogul Silver King and Webster Districts on the way. Fieight can be brought over this route from Stockton at from $233_{4}^{\prime}$ to 3 cents per fb for eight months in the year.

Is the principal town in these Districts, and is situated in a valley lying between two ranges of the Sierra Nerada with a beautiful river munning througld it, fornishing a supply of water, sufficient to run the largest mills. It would indeed appear, as if Nature had set apart this spot for all the conreniences and facilities of a large mining town: The population during the past summer was from six to eight bundred persons, but at the present time it is coasiderably reduced in consequence of the road not being finished before
set in. The town is about one mile in leagth by half a mile in breadth. The principal business streets are Main and Unior which are parallel with the river. There are more in contemplation so soon as a sufficient quantity of lamber can be prepared for building purposës. There are two saw mills in operation which will furnish a sufficient supply in the spring to meet all reasonable demands; at present they are producing lumber at the rate of from 12 to 14,000 . per diem. The current price of lumber will be from 30 to $\$ 40$ per 1,000 feet, according to quality. There is now being made an excellent quality of brick at from 12 to $\$ 14$ per M., and several brick buildings are under contract, and will be completed in the spring. An excellent quality of freestone is found in abundance in the immediate ricinity of the town, which is well adapted for building. There are two good hotels, and two more are to be erected during the coming spring. The price ot board is from 6 to $\$ 10$ per week, and good lodgings at from 50 to 7 i ets. per night. There are six large stores with extensive stocks of assorted goods, suitable for a mining region; one French restaurant one tin shop and hardware store, one brewery, two laundries, three blacksmiths' shops, three livery stables, and innumerable pioneers of civilization, called whiskey mills, making in all quite a respectablemining town.

## the mines.

With regard to the ledges, they are for the most part, large and well defined, and run in a northernly and southernly direction with extensive croppings and fine indications of mineral wealth; they are found in all directions from the town to a distance of four miles and further. On the West side of the town are many claims which were the earliest token up in the District. The first that may be noticed, is the Mountain claim which crops out largely, very high up on the mountrin; the croppiags being about 25 feet wide. The owners have run a tunnel over 300 feet and struck a ledge which slows good pay rock; assays have been made as high as \$184 to the ton. A company of capitalists are now in negociation with the owners, to huy the controling interest,
and if, they consumate the porchase ${ }_{j}$ it is their intention to put up a mill and work the claim vigorously the coming season. The Silver Creek Co. which adjoins the Mountain Co. North, have run a tunuel 100 feet, and expect to strike their ledge at about 50 feet more. The St. Charles Silver. Prize Co., Mammoth, Geo. W ashington, Frank, Big Tree, Chrystal, Baltimore and Uncle Sam are on this range, and have tunnels averaging from 50 to 100 feet. North of the above ledges, and on the eastern side of Silver Creek, is the Mary Frances Co. This Company has a tunnel some 50 feet and will strike their ledge in 50 feet more, with every prospect of oltaining good pay rock.

At the eastern side of the town, is the Scandinavian Cañon in which there are some rich claims, the first of which, after leaving the flat is the Alta Co., owned principally by San Francisco capitalists. They have run a tunnel 75 fee
and are close upun the ledge. Immediately adjoining is the candinaviou Co. with 160 feet of tumel. Abore these are the Guald \& Curry, J. C. Fremont, Pine 'Tree, Buckeye, Extemuado, I. X. L. and Lady Franklin, winh many others which have beem partially pruspected.
As the I. X. L. Co. have struck their ledge and had a ton of the rock worked ly different processes in San Francisco, it deserves a brief enlogy. The I. X. L. claim was taken up in the spring of 1862 , by $J \Pi$. Willians and others, the claim exteuding 1000 feet. They lad tunnelled in about 50 foet, when they struck the ledge $4, \frac{1}{2}$ feet in width. The yield from one ton of the rock, worked by different processes averaged $\$ 200$. One piece weighing 20 Tbs, wooked by the "Varney" process, gave $\$ 627$ in gold and silver to the ton. This Company intend to erect a mill in the spring to work their ores. Very little stock in this claim is in the market, being nearly all held by capitalists in San Francisco; the principal of a large Inglish Banking House owning a large interest. The I. X. L. No. 2, is the Is North Extension of 1500 feetin extent and bids fair to be as good as the original; when prospected. The segregated claim of Treat \& Dodge, 100 feet, is the 1st South Extension and the Omega Co's clain of 400 feet is the next adjoining South. This is one of the best lucations on the ledge and will be thoroughly opened in the spring. They are sinking a shalt alongside the ledge and at a depth of 50 feet will drive through it, with the expectation of fiading very rich ruck. More Acon

## A MONSTER BLAST.

The Von Schmidt Gas Company, who have been leveling off a location for their works, on the south purtion of the square between $2 d$ and $3 d$ streets, and Corrusend street and the Bay, concluded recently to put a monster blast into the hill, near 'l'urnsend. This was effected by tunueling about eighty feet iuto the hill, with a cruss-cut of about 40 feet at the innermust point, $i$, the shape of the letter $T$. In this cross. cut in clrarge of about $1 \frac{2}{2}$ tons of powder was placed, and fired off about 10 o'clock on Thursday last ; the result of which is described as follows in the Altu:

The explusion accomplised all that was expected of it in the way of shattering the cliff, so as to facilitate the work of bluff, but very nearly served the inhabitants thereabouts in the same manner. The bluff over the tunnel and chamber
the was completely shattered, and the rents in the rock ereu exteuded sofar is to open large cracks in the surlace of 'Iownsend street. The report following the explosion was lardly louder than that of an ordinary 12 -pounder, but the shock
was so severe, that a larre amuunt of danace was was so severe, that a large umunt of danage was done to
sone of the buildiags in the vicinity. The dwellings of Messrs. Rising, Rubert, Grant, and Captaia Arery, situated on the sonth side of '1'ownsend street, near third, were all more or less damaged by the crackiug of the plastering and throwing d.wn of the ceilings; and the residende of Mr. Diviue on the east side of lownsend street, some distance back from the street, was shaken so that the cooking stove in the kitchen, jumped some inches from the floor, if we may
credit the statement of an eye witness. Mr. John Grant's credit the statement of an eye witness, Mr. John Grant's
house was the most injured, the ceilings beng damaged to the extent of nearly, or quite, $\$ 1,000$, In the huase of Capt. A very, a small statue was thrown ont of a niche in the wall and broken to pieces by the force of the shock. Mr. Grant
had intended to have an injuaction served upon the com had intended to have an injunction served upon the com-
paby, to prevent the explosion coming off, but they got tue payy, to prevent the ex
start of him for once."

This, we believe is, with one exception, the heaviest blast ever fired in California. The exception to which we refer was one which took place near Smartsville, in Yuba connty, about a year ago. In this blast about twice the amount of powder was employed. A tunnel was ran into the hill 190
feet, with a cross-cut of 25 feet, in which the feet, with a cross-cut of 25 feet, in which the powder was placed and the tunnel tightly closed and packed or "tamped" with earth for the space of about 75 feet from the entrance When the explosion occurred, the hill for about 300 feet square, from the bed rock to the surface-a distance of about
100 feet-though 100 feet-though composed of very hard and compact cement, was thoroughly broken up, and thrown into ridges, yery much like mammoth plow furrows. The amount of earth
thus loosened would require a stream of 400 inches of water for over three months, for washing.

Fast Stramboating.-The Daniel Drew, a fast steamer on the Hudson, is said to have recently achieved 16 miles in in 36 minutes. This statement is almost incredible.

The present total revenue of Russia is $£ 44,374,248$, of which $£ 18,000,000$ is obtained from the tax on brandy. t£15,225,111 goes to the army, and $£ 2,241,404$ to the navy.

## THIE CH CAGO, or "NICHOLSON" PAVEMENT.

Mr. Edifor-I nutice in your issue of the 13th instant, the following paragraph in relation to the uew wooden pavew ment, recenily introduced into Chicago, and now generally known througbout the north-Western States as the "Nicholson Pavement:
Cuicago Wood Patemerts.-The Board of Works in the City of Chicago have given the preference to wood pavements over those of stone, as heing the most durable of any kiad yet used there. The following is a description of the nethod of construction: Lay down fooring of one inch board on a
bed of sund; coat the flocr with asphaltum: stand on end blocks of wood six inches high, by three inches thick, and nine inches in length, in rows abont one inch apart, divided by strips of boards. Fill in these open natrow spaces with asphaltum. There are six miles of these paveurents in Chricago, which after six years constant wear, are found to be nearly as perfect as when laid down.
As I have for some time been well acquainted with the facts in relation to the introduction and wear of this new pavement, I have thought it might be interesting to many of your readers to learn a few lacts in addition to those given in the above paragraph.
Chicago not only thus, but the city of Milwaukee, Wis., which has ever been noted for its smooth brick parements, and other cities have commenced laying the Nicholson Pavement. The expense of this paring is less than that of stone -is laid with great rapidity, and for durability, as well as level smonthness, has never heen equalled. Carriages move over it with all ease, and without the least jar; the blocks are seldom if ever, torn up, being tightly-wedged in with coal and pebbles, upon which hot tar is poured, and then covered with coarse sand or pebbles. The Nicholson pavement is superior to any other, and gains the awarded tribate of excellence of all who know of its superior merits and durability. Western cities have grown disgusted with brick and stone and all the old pavements are being torn up to make way for the new "street lloor," the Nicholson pavement. The city of Milwauke laid, during the last year, three miles of this pavement, and Chicago as much more, and both cities will ere long have no other. Cincinnati and Detroit have contemplated and are making arrangements for the same kind of pavement, through the principle business streets. Lisle Lester.

Treastre Saipment. - From the 1st of December to the present time the armount of treasuce shipped from San Francisco to the various ports aggregates $\$ 2,812,858$ 96. The oftal amount shipped since Jany. 1, is $\$ 44,111,999$ 13. The total amount for the correspouding period of last year was $\$ 40,830,18241$, showing an excess in the shipments of this year of $\$ 3,281,81672$ over those of last year.

## MINING SHARE MARKET.

There has been a fair amount of business in the mining share market, during the past week, and prices have generally had a favorable tendency. Encouraging reports from the mines have given new life and activity prevades the market. Ophir shares bave been in considerable demand at fluctuating prices. At the annual meeting held on the 16 th inst., the following gentlemen were chosen Directors for the ensuing year : E. Martin, Chas. F. Lott, Joseph Woodworth, A. E. Davis, J. B. Haogin, L, W. Coo and Jesse Holiday Mr. E. Martin was chosen President, and Mr. Lamib continued Secretary. Mr. W. Palmer, who has, had charge of the mine, as Superintendent for the past year, is continued in that position. Many had supposed that- the meeting. would have been somewhat atormy, but the reports of the President and Superintendent were so catisfactory, that it passed off very harmoniously. The latest accounts from the mine, particularly from the north end, are highly eatisfactory. Dividends for the present month have been sold during the past week at from $\$ 37 @ \$ 42$ per foot.
Gould \& Curry have advanced to $\$ 4,800$ cash, and $\$ 4,900$ at thirty days. Dividends for December sold early in the week for $\$ 135$, but closed freely at $\$ 140$ offered, with sellers at $\$ 145$. This mine appears to be "giving out", at an alarming rate. It is reported that the amount of bullion taken out at their uill, during the twenty days previous to Dec. 11th, was $9,381 \mathrm{Hbs}$. of amalgam, worth $\$ 225,000$. Comment is uncalled for.

Savage shares have declined a trille, and is quoted at $\$ 2,700$, with sllers at $\$ 2,750$. But one transaction is noted.

## Chullar alares have irnproved somewhat, witid less busiacs8

 that the presious week.B'otusi is luch firmly at full ₹?00 over last quatations. The injunction of the lirass Valley nganst this company was denied on the 14th iustant, which places the title of this mine beyond dispute. The latest nccounts from the wine are bighly encouraging; the indebteduess of the company is but a tritte, aud but small sutlay will be regquiroi for a thorough develnrement of the ground.
Hate \& Vorcors is comsilerably sought after at about \$1,0(\%), but is beld firmly at $\$ 1,100$.
Yellow Jacket has agoul market at $\$ 950$. We understand that a sample of very file ore at blue sulpharets, was received at the oftice: in this city, during the phat weels, from a now strike in this mine. This is sonethine new and a most promising fealure at so great a distance north of livid Hill. Nuch satiefaction is felt liy the stockholhers at the recent appointment of Mr. Jobn White, as Superiatendent of the mine. Mr. W. has had much experience as a mining superinten deut.
The lads Bryan Shares are exciting much attention at the present time, and have changed hands during the week to the extent of one fourth of the mine. Opening at $\$ 10$ these shares rapidly adranced, in consequence of exciting and farorable acecuits trum the mine, $\$ 191,2$ carh and $\$ 21$, in thirty days. We leam that rich blae sulphurets mixed
With wre siver has been met with in thins mine. only was needel, to lead to impurtant develupments in the Fivwery District, where the lady Bryan is located. The ing for this mine at the Roger's Mill.
Imperial Shares have been suld at $\$ 2.50$. The Company's bouks have been closed, to make as new issue of shares, two
fur one, and hereather the quatations will be made accurdingly.
Urerman continues stealy at $\approx 400$ to $\$ 405$. Sierra Nevada Shares have advauced to $\$ 80$. Dauey has declined to \$94, thirty days.
Nurth Anerican shares not much dealt in ; closing bids S58. Small tramsaction
Baltimure American, firm at $\$ 24$; $\$ 30$ asked.
Baltie shaves have been steady at $\$ 100 \mathrm{c}$ ( $\$ 110$, all paid.
North l'otosi shares in demand at $3.30(a) 32$.
Ballion, Golll Hill, first sold at \$43, and advanced to $\$ 62$ ju. At the cluse $\$ 5750$ bid, all paid

Hichigan Shares regular at $\$ 30$; Bajazette and Golden Era, at \$16. Grass Valley declined to $\$ 32$; Mit. Hope,
Guld $11.11, \$ 4$. Buruside shares have a market at $\$ 9,50$. Unien, Gold Hill, dull at $\$^{-}$; Nurton, at $\$ 5$; Pride of the West, in denund at $\$ 52,50$; Wide West, declinad to $\$ 57,50$; Utah, to $\$ 37.50$ thirty daps; Crockett, $\$ 2 \overline{5}$; Silver Hill, \$13.
Josephine. (Coso) $\$ 3$; Willow Springs, $\$ 2$; Sheba Shares steady at $\$ 15.5$ to $\$ 156$.
Melunos, declined to $\$ 70$, and closed at $\$ 75 \mathrm{bid}, \$ 80$ asked; Napolenn Copper Shares declined to $\$ 45$, and clused at $\$ 49$; Rhodes' Diggings, $\$ 6$; Mit. Bullion, $\$ 2$; Blue
Ledge, $\$ 7,50$.
We call attention to our report of Sales and report of Bids at the Stuck Board.

| VIRginia city stock list. |  |
| :---: | :---: |
| Correoted for the Mutiog and siomutic Preas, Thurstay, Dec. 16, 1863. |  |
|  |  |
| Virgima Mining District. |  |
|  |  |
| Ashia | L |
| 30 | Unted |
|  |  |
|  |  |
| ivider |  |
| deall ................ $8^{815}$ |  |
| Bajaz't nud Guthen Lrat... 123 |  |
|  |  |
| Burniug Muscow......... 140140 | Gold Hill |
| Buach-Paxtoul |  |
| Bromingia |  |
| (exid (Buch | 13ti |
| 通 Hill | ${ }^{\text {Branmon }}$ |
| 14 | Bslcher ............... 1400 |
| nmercial | Branctu Min |
| Conzoildated | Caleulouia tund |
| pursid. | Coppers |
|  |  |
| Aurable............... $30{ }^{30}$ |  |
| Fuirview | Irardnnelle.............. ${ }^{4}$ |
| 50 | Eureka.... |
| (ze) Gre | Forcare |
| 日arrimo, Vırkiuin | Fair View |
| Harrison, sua, Fta | Tzuld Hill, Bi |
|  | Crolden C |
| Hondura | Cinduen kag |
| İmaana..................... ${ }^{\text {a }}$ | Hawkrye............... $={ }^{56}$ |
| In | Hu |
| Irviag.................. - - | Horne |
| Insurauce ................ - ${ }^{10}$ | Ind-pemiea |
| Iowa.................. - 100 | Justicu |
| Ir |  |
|  |  |
| Juniata ................ 5 - |  |
| Keystone |  |
|  |  |
| Lancer | La Miotto .................... 15 |
| Mfute Cristo ............ 8 - 12 |  |
|  |  |
|  |  |



Mhang Agevcr.-By reference to our advertising columus it will be seen, that we have made arrangements to obtain special information, througb a resident correspondent, with regard to any particular mine at Recse River. Parties in the city about to invest in "feet" in that neighborhood, and not having time or cariog to incur the expense of visitiug the locality, wall do well to avail themselvos of the opportunity bereby preseuted in securing relisbla information, previous to iuvestment, at a moderate cost.
Persons alrcady bolding " feet" and deslrous to learn through a disinterested source the actual condition of the mine in which they may be interested, will do well to mbrace the opportunity bere presented of securiog tho desired informatiou.
We shall establish agencies similar to the above in all the principal miuing districts. at au early diy.

## A New and Valuable Book:

Procegs of Silver and Gold Extraction, Former marager of the Ophir Works, scc; 350 pages oc-
taveillusurated
This afmirable work hes met with the bighest comThis aimirable work has met with the highest com-
mendations from the Press and Scientific men, as ic clear and able exposition of the science as pracised in California and Nevaid Territory - it 18 wrilten for the people in goud plain English aun finely illuatrated.
Price-post paid-filoth $\$ 6$ : Sheep $\$ 7$
nov30
417 and 419 Nion tgumery street
saco tabor. somi bill.

## Tabor \& Hill

## Stock Brokers \& Real Estate Agents,

## 502 Montgomery St., cor. Sacramento,

Buy and Eell Mining Stock on Commission. Are members of the San Francilsco stack \& Exchange Board, rud of the, San Fraucisco Board of brokers. nor23

## Giffards Injectors,

$\mathrm{F}_{\text {OR SUPPLYME }}^{\text {Without Pumps }}$ OLLERS WITH FEEDWATER Bhould bo without one of these valuable Instruments. Seud for a Circular.
je22 Cor, Pine and DAVID STODDART, Agent.
VULCAN IRON WORKS COMIPANY,

## P. Torquet, Manager, <br> STEAM ENGINE BUILDERS BOILER MAKERS,

Iron Founders and General Engineers, No $137 \& 139$ First street, San Francisco.
Pumping, Hoisting, Mning an nartz-crushiug Shoos and Dies of the hardest iron, Punched Screens, Steamboat Machinery: Sisw, Flour and Sugar Mills, High and Low Presure Boilers of all sityles. Josyal and other Turbine Witer Wheuls with latest
faprovements.

## LEWIS COFFEY AND RISDON,

 STEAM BUILER AND SHEFT LRONThe only exclusively Euiler Making Establishment on the Pacific Coast Owned and conducted by Practical
Boiler Makers. All orders for New Work, the repairiug Boiler Makers. All orders ior New Work, the repairing
of Old Work, executed as ordered, and warranted as of Old Wor
Old Stand, corner Bush and Market Streets Opposite Oriental Hotel, San Francisco, Cal.
LEWIS COFFEY
J. N. RISDON.

## IHEODOR KALLENBERG

Maker of Models FOR INVENTORS.

M
 Lamps, Dies and Die Sinking, Embossingstamps.
Reparing of Machinery promptly attended to. No. 418 Market street, San Francisco. n7.3m)

## KUSTEL \& DEETKEN'S <br> METALLURGICAL WORKS,

S1LVER AND GOLD ORES, Tailings, Sulphurets, Arseu wirots, Etc., Etc.
Crupllation and Refining of Silver and Gold,
Practical Assays for Silver and Gold,
n Small and Large Quantities, by Smelting, Caloringtio
Wores-On the sia, Bruno Road.
OERGE-No. 605 culutgomery st nov 7 ti.

GENERAL NOTICES.

## DR. H, AUSTIN, <br> Dentist,

No. 634 Washington street,
Between Montgomery and Kearny, (over San Francisco
Baths.)
I have recently recrived from London a New and Beautiful Fulc inite (Tndin Rubber) for Artifcial Teech
Which is far suyertor to auy other ever uscd. It is ligh Which is far superior to auy other ever used, It is ligh cesay and durabe, and of a natural color. The cheap permanent sets, All operations thoroughly performed

## D ESK S

Office ${ }^{\text {AND }}$ urniture,
of all kinds...... For sale by

## JOHN WIGMORE,

No. 423 Casiformia Str., Sar Francisco.
OFFICC JOBBING, of all Kinds, attended to.

## SQUARZA'S PUNCH.

FIRST PREMIUM
AT THE SACRAMENTO AGRICULTURAL STATE FAIR ALSO ; FIRST PREMIUM At the Sad Francisco Bay District Agricultural Fair, 1862 Manupactory, muotesale and'lretar,
No. 44 Leidsdorit street, Opposite the What Cheer House, San Francisco.

FREDERICK MANSELL, MECHANICAL \& ARCHITECTURAL DRAUGHTSMAN
No. 422 California street, corner of Leidsdorff.
Drawings of MonsLs made forinarties applying for pat-

## El Paso District, Los Angeles County,

MINING AGENCY.
C. W. TAPPAN, GENERAL AGENT, "Head Quarters," Mesquit Springs, Will attend to auy business connected with these mines
 Stamps to the vilue of gity cerus, and cuclosing an ad
uressed envelope for reply, will be promptly attended to. The subscriver has a carefully prepared map (and
specimeus, of eacls lode in the district mauy of which are for sale at very low sigures. Bur
For further narticulars he would refer to $\mathbf{J}$. Barmet, Esq., 425 Davis St, San Francisco Cal.
$\begin{array}{lll}\text { El Paso, June } 21,1863 . & \text { C. F. TAPPAN. } \\ \text { au31 }\end{array}$

## R. W. MYERS, \& CO.,

Chases' New Mill, Fremont St., near Market,

## JOB TURNING \& SCROLL SAWLNG.

## BRACKETS,

RED WOOD BALUSTIERS,
NEWEL AND CEDAR BALUSTERS for Stairs.
Manufacturers of every description of Oval, Oircular and Square
PIOTURE \& LOOKING GLAASS FRAMES For the Trade at New York Prices.
All hinds of Designs for Building.
R. W. MYERS.

MINING LAWS AND FORIIS
JUST PUBLISHED BYH. H. BANCROET relatiog, tollining Corporiation, Assesments, etc, with a
digest of decisions of the Supreme Court and Forms for
dit
 the Boolistores.

## H. C. KIBBE, IIMNING SECRETARY,

Commissioner for Nevada Territory,
542 Sacrumentost., cor. Mrontgomery
(ARNORY HALL.)

## GENERAL NOTICES

New Patent Agency.
 The Patent Agency Business
And would invite Inventern and Uiscoverers on the Pa -
eific coust, who wish Dispateh as well as kiconomy to call cifc coust, who wish Dispatch as well as siconomv to call
upun us, whe have an lipprienced Agent at Washing-
on, which, together with our own experieuce of several yorr, renders the scientific Press Agency The most devirable place to make application for Leiter atent on the Pacilic const. Apply at
Oftice of the "Mining and Scientific Press, ${ }^{\text {" }}$ Room So. 57, Government House, coruer of Washington and
Saisome streets, San Fraucisco.
EWER \& SMITH.

## FOREIGN PATENTS OBTAINED

By application at this office, Romm 57 Govermbent House
NOTICE TO INVENTORS.
Inventors wishing to Ale Cavents should apply at this


PATENT RIGHTS.
Patent Rights Bought and Sold, the office of the "Mlining and Scientific Prens" Agodey
EWER \& SMI'tH.

JMPORTANT TO INVENTOFS. Inventors who obtain thcir Patents through this offlce nn have their Inventions illustrated and described in
he enlumus of this paper Fraxe of charge, they merely furnishing the en gravingg. We are also Hr repared to fur-
 anre to gn to the expense of baring cagraving prepared
can have thecer inventinis fully noticed dand described in
our columns, free of clarge. The free use of our col our columns, free nit charge. The ree use of our col-
omus to aid thera in introducing their inventions to the public will be found a most important advantage to in.
Etor.
ETER \& SNITH.

## WIEEELER'S Amalgamating and Separating Pans.

It is acknnwiedged by all who have exauined the princinples and witnessed the operation of these Paus, that
they are decidedly superin for trituratiog and amalgathey are decidedly superior for trituratiog and amalg
mating purposes to any other in uso. mating purposes to any other in uso.
The most importnnt principle connceted with the oporation of these Pans is the separation of the trituratiug
process from th: of extractiur the amalyam from the
 ses from the passing off of the sume in combination with
the quicksilver, during the proces of trituration, and in
 working these tranclines there is wo appreciatile loss a

Where these Pans havo Ucen introduced and oporated Whe side of others on sads from the rame vat, the
Wheeler Paus hnve uniformly gained a large percentage of metais over its compctitors, as well as a still larger recentage in the amount of work performed.
*** These Pans man be seen in daily operation, at the Miner's Foundry, on First street in this city, where al
nterestecl are invited to call and esamlue for themselves.

## $2016-\mathrm{tf}$

ZENAS WHERLER.

## Wm, P, TAAFFEE,

IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods,
CARPETS, DUCK, ETC.,
Cor. Front and Sacramonto streets,

```
San Francisco.
```

NATHANIEL GRAY, General Furnishing Undertaker, 641 sacramento st., Cor. of Web b
ebo. A. mftcarf. D. S. murchinson.
METCALF \& HUTCHTNSON'S


## 650 Washington st. Three daors below

 Kenrny.Having reftted the above rooms the Firm are now repared to fronish the public with a suporior style of city, CARD PICTURES.
As we have every facility for producing these beautiful pictures, in all
duced the price to

## \$3. Per Dozen!

Large ized Photopraphs \$3-Extra coptes \&1 each.
AMIRROTYPE in all Styles and prices
Of.D PICTUREX copied with care aud accuracy, in any style desired. Purticular attention paid to pictures of
CLildren. Piretres mainted in Oil or Water Colore, and retoocbed

International IIotel, Jacrson Strier,

FIRE-PROUF BRICK BUILDING.
Host convemicnt to the of Amusement OPEN ALL NIGHT.
City Railroad Cars Pass the Door.
REDUCTION IN PRIOES.
Flne Bathing Rooms attached to the Barber Shop
Warm aud Cold shower Baths Frce to Gaests.
THOROUGHLY RENOVATED AND NEWL,Y FURLished this spring. Every Room opens to the Light Patent syring bed and Hair mattresses. The Iuteryation1 offers to guesta the greatest aumber and

Best Furnisied Family Rooms
and SETR AS Good $A$ table as any House in the city, I am determined that the Ivternatiozar shall be the perior to avy like establishment in the state, and shall im to merit a contiouance of the popular favor it has Principles,
F. E. WEYGANT, Propriexor.

## Tremont House,

 418 and 420 ..... Jackson Street,$T$ IEIS FINE, FIRE-PROOF BUILDING OFFERS MANY only half a block from the Post Office and Custom Howe, and ubout the same distance from the principal places of Amusement
The City Railroad Cars pass the Door.
The House is conducted en Temperance Principles,
WHICH SECURES TO OUR GUESTS QUIET.
The prices for board and Rooms are very moderate-
y the day, meal or week. We soucir a cale From Alr F. E. WEYGANT, Proprietor.

For the accommodntion of my many guests I have taEen and refurmshed the IntrRsathonal Hotel, and will wisbing to put up at either house, may take tho Tremont or International Hotel Coach and be taken to citber House with their baggage, Free.

> F. E. Weygant.

## THE RAILROAD

 HOU SE.Nos. 318 and 320 Commercial \& Clay Sts., SAN FRANCISCO.
H. T. Felifon, . . . . . . . . . . . Propribtor.

The above Enise is a Fire-proof building, with Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our

The Rooms are handsomely rurnished, upplied with Patent Spring Beds, aud Hair Mattrabtes, afording very saperior accommodations for tamilies or single persons.
The Table is supplied with the best the marketaffords prices to suit the times.
The Rail Road House Coach is always in attendance at the Steamers ro convey passengers and tboir baggage to he House Free of Charge.
The Houss is open all aigbt.

## P. M. S. C 0.

PACIFICMAIL STEAMSHIP COMPANY'S - he to PANAMA, connecting via the Pamama Rail Stcomship Corppany at Aspiuwall.

## FOR PANAMA.

The following Stenmships wall be dispatched in the
Dec. 3d
Dec. 17th, - - Steanuer Golden City.
Dec. a3d - - Steamer St. Louls.

Will leave Foisom Street Wharf, with Passengers and reasure, for Pamaza

AT 9 O'CLOCK, A. M., PUNCTUALL.Y,
And conncct, Yia Panama Railiroad, at Aspinwall, with
toamships for New York. For Freight or passage,
jest

$$
\begin{gathered}
\text { Af B. B. FORBES, Agent. }
\end{gathered}
$$

FOUNDRIES \& MACHINE SHOPS.

## PORTLAND BOUER WORKS.

MOYNLHAN A AITKEN,
Boiler Makers \& Sheet Iron Workers,

## Mission, between Beal \& Fremont Sts,

N. B All kindarl Bmar and sbert Iron Work ax curmat

## PUMPS: <br> HARRISON'S

 Califonia lift and Force Pump, vented.

ALE SIZES;
 C. H. HARizis()N, Phexix Oil Works, 617 Fromt strect, sin bermuiaci,

## 50 lbs MARLNE and

Fire-Proof Paint,



## DIRECTIONS:

For Decks of Ships, ure two parts Mtweral Phint, od
 Fur Ihitominal Viesels, use whe part ground sulphur
zhron parts Hinerul l'ani, mix with Coul Tar and uphly Fir sale by ult Shap Cbandlers aud Tradesmen, in boxe
so tba. eath, or Uy the Pacife Metallurgien Wor

## 85 POUNDS FIRE-PROOR PAINT.

When ued on Romft, Buildiugr, or Fencen, it is equa to cuvering then with a cont of stoue, belo

> DLRECTIONS


Works, North Beach; Omce, 500 Sac

## HRPBURN \& PETERSON'S

AMALGAM $\triangle$ TOR.
 Ine Yublic to therir Reducer and Amallyamator, and aiso
to thelr separator for reducing and siparating the mincralfrom

GOLD $\triangle$ ND SLLVER ORES manufactured and cexblblted at the Vulan fron Works
Nos 137 and 139 First strect, Su Francisco.


 ern Slope Milll,
nove 3 mm FEPBURN \& PETERSON.
SOUTH PARK
Quartz Mill and Reduction Works, G OLD AND SLVER ORES WORKED AT REASON able rates, aod Working Assays made
All kinds of ores crushed at shorl notice.


## W. W. Hanscom,

Steam and Mechanical Engineer, Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Ma clinery, etc., etc. Agent for MacKenzie's Patent Cupolo and Blower.

At Golden State Tron Worle,
P.atevt cluner- We will furublt, on appleation, the tasi toriticen yours The nam. of the pacente..-dat of patent, whitu ksiown, and two duitars for copytu sha what be meat.
swat to un, therir namion and authreas, tu a legible, pers errurn.

## PALMER, HANSCOM \& CO.,

## GOLDEN STATE IRON WORKS,

No. 19, Firat street, san Francisoo,
Furnish Castings and Machinery of all kinda also :

Genvink White Iron Shoes and Dies. falmer, hanscomb \& co.

## To Quartz Miners.

15.nox's Kmproved

AMALGAMATING PAN, wirt
PALMER'S PATEN'E STEAM CHEST.
THE ABOVE COMBINATION SECUREs THE MOST
any prive-s anw hiown.
cetching of tloating guld aud ellver, knowa to bo nther


The public are toformed that Letters Patent hnve been
cratten the undersigned upou Stram Chest Falso Bon
graiter the undersigned upous stram Chust Falso Bot
Loms fur the inside of Amalgamatug laus or Tubs,


## Miners' Foundry

MACHINE WORKS
First St., betweon Howard \& Folsom,
san franciscu.

TVERY DESCRIPTION OF IRON AND BRASS MACHI int thes state of Caltoruia, wall be furnished with dis patch at the Miners' Foundry and Machine Works, as: Stean Eugings aud Boilers, Fluur, Suw and Quartz
mill machiuery, Minitg Homps, Amalgamanturs, Rutorts,

Particulir attontion will be given to the manuracture of Slachinery in Sections, designed for places ot dilleult
accens, Various mudels of (quarta Crushers, Amalgana tors and Water Wheels-some in operation and oll exli
bnion.
*** Partics desiring to test their ores practically, in

All parties desiring accurate and highly anished draw
ings and Supernur Machinery, at nost reasonable rates
are cordially iuvitud to call Lefors contracting elsewhere HOTVIAND, ANGEL \& KING San FraLuiscoo, Fobruary 23, 1863.

## REYNOLDS

Patent Cut-0ff and Governor, For steam engines.

127 of these Invaluable Machines, ARE NOW IN USE
In California eud Nevada Torritory, gividg a perfectly
regular motion aud Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor



## Clark'sSteam and Fire Regulator,

 For cortrolling tne Draft or Blant by openng the Chim-ney or Yaive in the Blast Pipe by the pressure of the pound, on the square inch. it Cansor got oit of order

## Ingersoll's Patent Drill Press,

ed in any tirechinn

chuding all that relates to mines and mineral products of economical value ; the lourth, the tain such maps serctinus and other illustrations as were not introdured into the wther volumes, or printed with the tuxt. It is pers sithe, haweser. that some of these solumes
might have to be divited into two parts, owing to the large quantity of matter it mirh be desirable to pulatish. *** The appro printion tor the survey made for the second year of its continuance by the Legislature of
loti'g having just lo6' having just bern pad, a volume is now
due the Stite. Tho wurd has already been due the Stite. The work has already been
legun and will be carried on as rapidly as possible, provided the Board of Examiners will audit my estimates for the printing, to the extent authorized by the law, so that I cun make the necessary financial arrangements and be cuabled to pay for the work as it progresses by borruwing on the security of the
Staro warrant. $* *$ The printing of anothStaruwarrant. *** The printing of anoth-
er vulume of the report can be commenced whenever an appropriation is madn for the same by the Legislature and the money provided lor the purpuse.
Important to Miners.-The Supreme Court of Califurnia has just settled an important point concerning the right of locators of mining claims, and as the same state of circumstauces is very likely to again arise, we publish the decision as we fied it in the San Francisco Journal:-
Coleman et al. vs. Clements et al. is the title of a case wherin our Supreme Court settles some points which it is important to know. In February, 1861, three persons, in the name of themselves aud twenty-seven others, sume of whom knew nothing of the use made of their names, or of the intention to do so, took up and marked out a copper claim of 4,500 feet. Afterwards; in June, 1861, twenty-three of the original locators, with seven others, formed a new company and relocated the same ground, claiming that the original location had been abandoned by the failure of the seven lelt out of the new organization, to perform, as the mining law required "one day's work on each claim every thirty days from the lst of May until the 1st of December in each year." Five of the seven thus left out in the cold, brought sait to recover five-thirtieths of the claim, and the cause laving been appealed to the Supreme Court, that tribunal decides as follows :
That the claim is a joint one-that is, 4,500 feet, located in the joint names of thirty persons, and there is no location of any distinct portion thereof in the name of any one of them ; that it was therelore impossible for
each locator to do a day's work on his own each locator to do a day's work on his own
claim, and the law quoted, must not, in the absence of express terms, be construed as requiring him to do so ; that in cases of forfeiture, terms are to be construed strictly, and here the word "claim," which properly includes all kinds of claims, joint as well as separate,
means a claim held by individuals jointly, just means a claim held by individuals jointly, just
as it does a claim owned or held by one person. And one day's work, that is, the labor of one man bestowed ou a mere iudividual claim. On the point of adverse possession set up by defendants, the Court says that to make such possession available against a co-
tenant, there must be an iutent on the part of tenant, there must be an iatent on the part of
the tenant in possession to hold adversely, and such intent must be indicated by acts calculated to exclude complainants from all participation as tenants in common. The possession of one tenant in common is pre-
suned to be the possession of all, and this possession is not overtunned by the mere fact that the one in possession does not recognize his co-tenant. The judgement given in the Court below, in favor of complainants, is therefore affirmed."

The last idea of Paris, says one of the correspondents of the daily journals, is a plan in alto-relivio of the whole of Europe, nut in maps or models, but actuaily raised out of the gronud. A garden is to be s.t aside for the modeller, who, takiug Mont Blank, fifteen feet high, as his point de depart, is to raise in just proportion around in the rest of Europe, pour the seas into their proper places, and intersect the whole with roads, canals, railways,
and telegraphs. A steam eugine is to act the part of the moon, and regulate the tides.

## GEOLOGICAI SURVEI.

According to the Report of the State Goolugist, he is steadily and industriously pros ecuting, his impurtant and interesting laburs. In it he indicutes what is necessary to be done in urder to cuntinue the survey, and to perfect what has already ween done. The contributions to science, and tho iumediate and prospective advantages to our State, which it is believed will follaw a publication of the forthcoming volumes, will prove the wisdom of creating the ulfice of State Geologist and of continuing its existence.
There are only three counties in the State in which some work has not beeu done by the survey, and those are KImath, Humboldt and Mendocino counties, in which Iıdian difficulties have hitherto rendered it almost impossible for the small party to operate to any advantage, or without considerable risk.
Mr. Whitney says: "It seems proper, at the present stage of the surver, to thake some statement in r gard to the probable amount of time and money required to complote the work. Indeed, in my address before the last Legislature, I promised to do so during the couing winter. It is especially necessary that some action should be taken soon in reference to this matter, as the amount and character of the printing to be done this winter will depend on the settlement of the question whether the survey is to be
continued; if so, for what probable length continued
Undoubtedly, were the State in a position in which economy in the public expeuditares was not of the highest importance, there would be no question that the survey might be continued to an indefinite period with advantage, since all will ndmit that the results proposed to be gained by a work of this kind, if it be properly conducted, could not fail to be beneficial to the community. Thus, no ove in California objects to the minute accuracy and consequent expense of the coast survey work upon our shores, since the bur-
den of payment does not fall directly on shoulders. * * * The farth directy on our pleteness to which $I$ ever aspired to carry this survey was the completion of a map of the whole State on a scale of six miles to the inch, making nine-sheets, each abont three feet square, with the geology worked out on a correspond ng scale of accuracy. Further expericace in the State, and more knowledge of what the people expect, and a personal experience of the condition of the treasury, have convinced me of the impossibility of carrying out this undertaking, for which certainly not less than filteen years will be required. 1 am fully convinced that the work, carried to this extent of completeness, would be of sufficient benefit to the State to justify its being done ; but I am also equally well assured, in my own mind, that the people would not recoguize the value of the survey until after it was completed, and that, consequently, it would be impossible to carry it forward on a matured plan without danger, and almost certainty, of its being interrupted.
In weighing the matter carefully, I have concluded that four years longer is the extent of time to which the survey should be protracted, with a liberal appropriation-of not less than $\$ 41), 000$ per year. But I am, furthermore, of opinion that the survey should be suspended altogether, until such time as the finances of the state are placed on a cash busis, as I find that the delay and anxiety caused by the necessity of borrowing to meet the advances required by the treasury' being from one two years behind hand in the payment of the appropriations, is too disagreeable and prejudicial to the interests of the State and the progress of the work to allow
me to be willing to continue on the system any louger. * * * The result of the surver in case it should be actively contioued for four years longer, would probably be comprised in about five large volumes, of which the irst would embrace the physical geography and general geology of the State ; the second, the description of the fossils found in our rocks, both those of animal and vegetable origin; the third, the economical geology, in-

CROCKER'S
STOCK and ASSESSMENT LEDGER.

## Copyright secured-Price $\$ 10$.

The necessity of a proper loonk for kreping the Stark Tery much needed.
and sapplicity, aud wnuld not requirc the serviess of ati


 of the manuer of kerpuly it;aid aty person. whetber thoy understad biok-k kepping or not. canmot muke an error
 Stuck An. Assewsments. He e.an misn, with the greates eise, traco any verriticate, through any number of trans

 olltered to keep, conlensing the whole in one hoob be a persnn who is Secritary of several companies, this Enranleeing s.tisffuction to thesu who may order them.
 State which is preferved.
Publisilied und for sule, wholesile and retail, by H. S. CROCKER \& CO. Book anin Jub Priuters, Sacramento Certificates! And complete sets of books for Cirporations, in the finest
style, at short notice, aud low rates.
$7-1 \mathrm{~m}$

## MINING NOTICES



ASSAYS!
Promptness and Accuracy Secured By the Use of tae Nost Improved Methods of
A NALYSIS
Advantageous Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHILL, M. A, (Fron EURops.) Wrathington Streets, sun Francisco.

## Mining Shares For Sale

C. A. ORANE,

Ofice 28 Goverumeut Block.
475 Shares U. S. Miung Cumpany, Virginia City. 910 Shares Gramadn G.nd and silver Mining Company 168 Shares Evoca Consolidated Copper Miaing Com 20 Shares Mohave Miniug Company, $I_{\text {a }}$ Paz District Colorado, N. M.
30 Shares Aspiowall Gold and Silver Miniug Company, 75. Shares Wushiagton Copper DSining Gompany, Indiau ar, Tholumne Co.
zas shares Jtontenma Guld
ny, Inyo District, Tulure Co. ny, Inyo District, Tulare Co. 90 shares Owen' County Consnlidated Gold and Silver
Miaing Corapnay, Iuso District, Tulare Co 50 Shares Crown Print Ravivise Gold and Silver Mibing
Company, Virginia District, T. T. 10 Shares Triunfin Gold and Silver Mining Company
N. LOMBARD INGOLS.

## Acoountant and Mining Secretary,

No. 10 Govervmest Hatse, Cor. Whashington \& Sansom St office of the
Santa Cxuz Petroleum Oil Works Co., Gem silver Mining Co., (Reese kive Lauxel G \& S Miming Co., Copala, Sinaloa, Me
N. B, Mr. Yngnols will pay prrticular nttention to the

 Than twenty-Give years in every brauch of his profussion
is a guirmiteo of his practices and thorought aequiutance




## HEYER \& CO.

AERTCAN AND EUROPEAN Fancy Goods, Toys \& IMusical Instruments: also,
MOAPS, PERFUMERY, HAIR AND TMOTH BRUSGES,
 Carriug's, (tec, Our Stock of Vinlin, Guitar and wher
Striugs is very large. Our Torelgil Goods are selceted

## Hallet \& Davis' Boston Pianos,

Smith \& Bros' Harmoniums, and

## The Hallet \& Davis Yinvos ale enely nupuliel with the

Pateut Susplensoun Bridge, which io a decidell taprove
 the beat quality, and warrnnted to givo satisfictiou. I

AGENTS WANTED.
We want a guod Ageat in every chly, rown and settle.
ment, on this Coast. Applicuits wiit seud their names
with reference, when specimea numbers of the Mina with, reference, when specimea numbers of the Min-
ing \& Sciextific Press wil be forwarded tu them
ind

## Owens River Canal Company.

## FOR SALE,

FOR ACCOUST OF THE COMPANY, 7,000 Sharrs OF


## REMOVAL。

OFFICE OF THE PACIFIC METAL


Goll aind siler ore, and Sulphuret Assayers', or sil
versmiths' sweepings reducel or purchased.


OWENSS RIVER CANAL COIIPANY.
Capital Stock . . ........... . $\$ 1,000,000$.
10,000 Shares . ....... $\$ 100$ per Share.
Aortionz of this Stock is no offered to
the public, and recomended as an invostmont. FULL PAID AND tinassessable
Stock, atso Acsessable sthcl, cau be obtinied of A. J
DOWNER \& CD., the authorized Agents of the Company

406 Moutgomery steet.


R.S. WHIGHASI, formerly of Whisteyn Whes Mill, Nevadz

Citi itam Fleming.
 WILLAM P. PRiTMT.......................... Nif Nush \& Fogg.
$\underset{\substack{28 \text { sep }}}{\text { Office }}$ of Company 328 Montgomery strect

## ARIISTRONG \& WILDER

SEARCHERS OF RECORDS for bining Claims \& Renl Estate. RELIABIE ABSTRAOTS guaranteed at reasonable prices, LETTERS OF ENQUIRY promptly answered.

MINING SECRETARY, 512 Sunsome Street, Ṡan Fravcisco.

## Honses. Mres, silver nud Copper, Monte Diablo 

I. C. Sanborn \& Co. STOCK BROKERS,
No. 630, Montgomery Street.
$O^{\text {Phir silver Minng stock, }}$
GOULD \&e CURRY MINING STOCE,
CHOLLAR MINING stock,
Calmornia stean naideation cós stock, BOUGHT \& SOLD.

## NEW MIINING AGENCY.

$\mathrm{W}^{\mathrm{E}}$
E HAVEMDE ARLRAGEMEVTS WITII A SPEmine in that lucality can be oltanined, ior the Private Benctit of Parties in
ayy
gen
ameral charactrristics and condition oi the sulne the sonable fee will be renuin 'ly for such service. For fur Ther information apply at thas Oifce. EWER \& SMITH.

## L. F. LELAND,

STOCK BROKER, No. 621 clay strect,
Omen Fnurs, 10 to 11, A. M.; $2 \frac{1 / 3}{2}$ to $3 / 2 / 2$, P. M.

## AGHITCY

MEXICAN MININGSTOCKS
OFFICE OF THE PENA AND LA MARONENA SIL Culfrorna.
All persons are inviled to call and exannine ores from
the above mines, the above mines,
jel3

## New Bedford Copper Company,


ular supplies of their superior manufactures of
Sileatming Copper;
Brazier's Coppfr
Copper Bolts;
Yellow Sheatiing Mrtal;
Copper and Composition Nalls;


BUSINESS CARDS

## A. C. MORSE

## Thining and Real Estate Agent,

H aving made ardeangements
San Frung in om prepared to CU

## GOLDEN AGE G, \& S. MITNIVG CO,

Austim, Reese River.
office, 57 Govermunt House
WM. POOLER, SEC'T.
Fire Hose! Fire Hose!! Fire Hose!!!
J, P. D. WILKINS,
Fire Hose, fromit the best material, and WARBAMmen at of Shin of The Treer Steum Eaghe Co, ao 3. or hie city
 certinied by the Chief knkineer.
ALSO FOR SALE,
All kinds of Haryinss and Sabplery, at the lowest cash prices. Repmang done promptly, ube toor west nt the
oct 12

## WANTED,

## GOLD QUARTREUTTABLE FOR

CUTTING JEWELRX,
by frontirr a. Deviercy,
au35

## The Pacific Mineral Compnay

M
Copper, Silubr, Tin, Nickel, Cobali, Zinc,
Leid, and Sulphorets containing Gold.
Dine humban tikeer nif all valuible
witi Silver aod Copper Ores, and adv
Parties nwning undevcloperd mines and desiring canital
 on Justily such exper

OFFICE, No. 1, ODD FELLOWS' HALLL,
Montgomery Stroet, SLA Francisco.
MARTIN \& Co.,
OFFICE...224 Montgomery Street, Up Stuirb,
will contract for tee
Purchase of Copper Ores,
We will mako ADFANCES upon Ores of COPPER, TIN Sachs will be furnchef and Freiphta Pald on all con-
Henry Martin,
Nuw Yurk. J. F. Greenman, $\begin{gathered}\text { Sun Francisco. }\end{gathered}$
Sud Fraucisco Post Officz, Box 1269.
je 1.
NORTH BEAOH QUARTZ MILL and
REDUOTION WORKS
Are preparel to wark Gold and Silver ores, in large or mall quantities.
Wres crusug ass aye maile of smant notice. lote, und all kinuso Our new and complite Machinuery, will cnable us to
ive results fully up to the meriis of ruck:

WHELLER \& THAYER, Proprietors.
. C. JUNLS, Amalgarmator
Sau Francirco, Oct. 13, 1883.

## Jons: P. Gallagher

Joserin h. Tiben.

## GALLAGHER \& WEED <br> BRASS \& BELL FOUNDERY AND <br> LOCK FACTORY.

125 First street, opposite Minar, nest dour to Pacific

## Brass and Composition Castings and <br> Finishing, done writh reatness and dispatch.

Church ant steanboat belis, of all stzes



All Jobs promptly attended to.-Prices moderate.

a JOURNAL OF MINING, MANUFACTURES, SCIENCE, ART, CHEMISTRY, INVENTIONS, ETC.

## VOL. VII. SAN FRINCISC'O, SATURDAY EVENING, DECEMBER 27, 1863. , NO. 9.

## Fivt a reGigMcent

## Important improvement

## MINING AND SCIENTLFIC PRESS.

Enlarged Crom Elebt to Slxteen Pagen at the Com
mencement or Volmme VIH, Jamaury $1 u, 1864$.


## ruburgen Etezy antomat.

## SUBSCRIPTION TERMS HN ADVANCE:

## One Volume, six month Two Volumos, ane yas,

## The present proprletars of thss jomrnal announce with conndence thele determimation to render to the friends of Nelence, Mining and

 Mechanleal Industry a newapaper published upon this const worthy of thelr patronage at home and elwir pride ahrond. We shash seak favors only throush our endeavors ta merit themIlluntrative Drawinga and Engraving*
Superior In onlsh and useful and attractive in character, will be published trom the to time, representing the moss important new Inventions and improvernents in the art and science of

Mining and Mechanism
Developed unon this Const. Each number of the paper will contain full and correct reports
Sales by the Stock Boards of San Francisco
Sales by the Stock Boart of Esmeralda.
Sules by all Mining Stock Boards.
Reports of Blds and Sales in San Franeiseo.
Reports of Blds and Sales tin the Terrltory.
A Weekly Review of the Stock Markets
A Weekly Review of General Mining Interents. Geveral Summary of Callornia Mining Nows. Gencral Summary of Mining everywhere.
Valuable Information for all Miners.
Indispensable Knowledge tor practical workmen,
Practlcal Sugkeations for litellgent artizang,
Faluable Fretm and Statlutics
Bssential to membery of all frades and professions; the best approved methods of mining; the latest discoveries and inventions in minIng operatlots; practical, scientifle views upou grological and minernloloxleal questions; the proper methods of reducing ores and anving the precious metals, Iu fact every sentence calculated to lessen the number of hard blows uselessly rendered by miners and Working men, and add wenth hy intelligent saving of material or
labor, will find welcome space in our coluans. The paper will afford many

## Practical Hints

With regard to the manter of working and securing mines, derived from the actual experlence of parities in our own and other countrles. Also hints conecrning the locatlon and possesslon of mining grounds; the laws pecular to diferent distrlets and countrics; and

## Bools of Reference

The bound volumes of the Press will find no rtval in value to the Intelligent and industrous eltizens of the Pacife Coast, who cannot but feel a source of pride In the bistory of the Inventions, dfscoverles and prosperous develop
which we are now passing.
which we are now passing.
The Stock Fecorw
As presented in our columns will le found correct, distinct and most For Sending Abroad.
As a paper for malling regularly to your frlends in the East, or to correspondents elsewhere, none can be seleeted snore appropriate, or better calculated to dispense reliable informatlon with regard to transplring events on this coast and the progress of Callformia. Friends pleased with our success in the publication of the Press
ean render us essentin ald by furmshtng currespultence und on imean render us essential ald by furnshing currespontence und all im-
portant finformation which may come under their observation, and portant information which may come under their observation, and tures of the paper; the appreclation of which favors will be duly manifested by the constant improvement of our journal.

IE EWEY \& CO., Yubllihera.
OFHCE in Coverament Ho and Sausome streete, San Fraucisco.

## THE MINERS' LABORATORY;

## KMPORTANT AND VALUABLE INFORMATION

Miners and Prospectors.

the science of mineralocy.
During the past few months we have been publishing a series of articles under the above head, in which we haveendeavored to collect such information as shall be of practical value to the miner and prospector, in their labors and explorations in the field. The early numbers, which treated upon copper, having been long out of print, it has been suggested by many of our recent subscribers, that we should reprint them for their benefit, and for the benefit of mavy of our old subscribers, who desire to have them collected into a single number. In accordance with these sug gestions, we give, in the present issue, so much of said papers as are of any special value. We shall still continue our Laboratory articles, and endeavor to render them, more than ever, an interesting and important feature of our journal.

The primary object of the science of minerology is the developement of mineral bodies ; a knowledge of their characters, forms and conbinations; also the circumstances and conditions io which they are found, and the substauces with which they are combined. 'This is the practical object of mineralogy and the point upon which we propose to treat principally in these papers.

A development of the nature of minerals, a knowledge of their elements, their properties and uses, constitutes the zconomical portion of the science, which though highly interesting and useful to mankind, is not a matter waich we propose to discuss to any extent. The miner is directly interested only in the developement-the bringing to the surfaceof the minerals of the earth ; their economy and general introduction into the various channels of business, he leaves to those into whose hands he delivers them in their rough state.

We know but comparatively little of the earth beyond the depth which has been reached by mining operations. This depth when compared to the entire bulk of the earth, may be correctly compared to the minute scratching and pin punctures of a coat of varnish on a 12 -inch globe. All beneath is mystery and speculation. Of this we shall treat more at length in future numbers.
A Mineral is an unorganized body, differing from an or ganized or living body in its structure, in the manner of its formation and of its i crease or growth. While organized bodies increase by means of their internal organs, which assimilate and retain in the system what is beneficial and reject what is useless, unorganized bodies increase externally.
A simple mineral sulistance, as pure gold, silver, etc., may be described as an organized body, presenting an aggregate of lesser particles of the same nature, united by affinity.

Every mineral possesses two distinct kinds of character, by one or both of which it may be distinguished from other subatances. These are termed the external and the chemical characters. Th former are commonly apparenc to the senses, and the latter are those which are developed during the chemical decompositions, which may be accomplished with or without heat. J'hese characters are denominated as follows : Aspect. or kind of lustre ; color; hardness ; specific gravity; streak; form ; structure ; cleavage ; surface ; tenacity and transparency.

Aspect, or kind of lustre, is very important, and is divid-
ed into metalic and non-metalic aspect; ther are often blended in the same mineral. Many minerala also mossess two distiuct kinds of lustre, une extel oally and the nother in. termally. The true metalir lustre may alway's we uistiuguish ed frum the metalic, pearly-adamantioce lusure, by its verug always combined with perlect opracity, aud by remaimang unaltered on the scratched surface.

Color is also of cunsiderable importance when combrined with metulic asject. In speaking of colur, in conucetun with minerals, the depth or shade of colur slould be carefully noted, and the peculiarity of shade expressed as near as possithle, by reference to some well known substance.The metalic colors are white, divided into silver and tinwhite ; grey, lead-grey and steel-grey, yellow, brass-yellow, bronze-yellow and goll-yellow ; black and copper-red.
Hardness is one of the inost important ut mineral characters. There are generally reckoned ten degrees of inardness: 1, yields easily to the nail. 2, yields will difficulty to the nail. 3 , scratches a copper coin, but is also seratched by it. 4, not scratched ly copper, but is not hard enough to scratch glass. 5 , scratches glass, though with difficulty, leaving its powder on it, and Jields easily to the knife. 6, scratches glass and yields with difficulty to the knife. 7 , does not yield to the knife, but does to the edge of a file, though with difficulty. 8 and 9 , harder than flint. 10 cuts glass.
Spechice Gravity - That is, the weight of a body compared to some other body of the same size or volume. This latter body is assumed as a standard; this standard is pure water at a temperature of $60^{\circ}$ Fah. A cubic foot of water weighs $997-136$ ounces-usually taken as 1,000 . A cubic foot of silver weighs 10,000 ounces; therefore we say silver is teu times heavier than water, and its specific gravity is $10-0$
Streak is a very effective character; it signifies the color of powder, produced by drawing or streaking a mineral across a file. The best way to distinguish the streak 18 to take a fine file, and draw it once or twice across the mineral, pass i lightly over your finger; when the color will be left thereon, and may be easily noted.
Fors is a character, when regular, of the highest interest, yet of limited utility in the discrimination of mimerals.
Structure and Cleavagr.-The structure of minerals is the mode of aggregution of the particles of which they are composed. Limellm structure is composed of broad, distinct concretions, of about equal length and breadth. Prismat'c, or bladed structure consists of long and narrow concretions, forming a trans tion from the lamellar into the fibrous structure. Fibrous structure, consists of fibrous, or very thin and capillary concretions, either straight or curved. Granular structire is composed of minute or small concretions, and appears to consist of one compact mass.
Surface. - The surface of minerals may be either uneren, granulated, rough. smooth, or streaked; streaked surfaces often arise from a close fibrous strncture, or otherwise indicate the direction of cleavage planes.
Tenacity.-The following are the different degreess of tenacity:-Brittle, such as grate under the knife, or fly off in the lorm of powder when attempted to be cut; and break into powder when placed on an anvil and struck by the hammer. Malenble or ductile, the property possessed by minerals which may be cut by the knife, and which flatten into spangles under the hammer

Transparmey.-'Lhe following are the degres of transparency, or trausmission of light, as possessed by minerals : 0 , Opaque. 1, Translucent on the edges. 2, Translucent. 3, Semi-transparent. 4, Transparent.
Degref of Lustres is distinct from the kind Justre or aspect of minerals. The degrees of lustre are marked by the following numerals : 0, Dull, devoid of lustre. 1, Glimmering. 2, Glistening, or weakly shining. 3, Shining, as rock crystal. 4, Splendent, or strongly shining, as galena.
pearance of the surfaces produced on breaking a mineral in
any direction, except in that of its natural juints or cleavare any direction, except in that of its natural juints or cleavare
planes, which ought to be always smooth, and nore or less Fracture is a character of minor importance; it is the ap shining.
Form, Frangibility, Flexibility, Todch, Somina and Sound, are all terms which are sometimes employed to deseribe the characteristics of ininerals, but as they
portance to the geveral student, we pass them by

Taste is a characteristic properly possessed by such minerals as are soluable in water.
MasNetism is a characteristic of limited application, but in many cases a very important one. I'he only metals which
attract the magnet, are iron, uickel and cobalt ; and there are very few that affect it in their natural state, but may do so after their exposure to the action of the blow pipe.

Electrictry.- To ascertain whether a mineral possesses
this character or not, a small instrument called an electrothis character or not, a small instrament called an electrometer is necessary. Electricity is produced in minerals,
either by heat or fr ction. To try if a mineral possesses the property of electricity, first rub it briskly for a few minutes with a woolen cloth, and thee present it to one of the eltrometer; or, heat it gently through and do the same ; if in either case it attracts the ball, then it pos sesses electricity.
The effects produced on minerals by the action of acids, are very important. 'Thesa effects are efervescence, solubility, partial solubility producing a gelatinous nass, \&c. To develop these effects, the mineral should be reduced to pow-
der, and placed in a small test-tube or other vessel, and the der, and placed in a small test-tube or other vessel, and the
acid, either pure or diluted; must be gently poured over it. The application of heat is sometines necessary, in which case a spirit lamp is made use of, and the mineral and acid supported over it in a test-tabe, watch-glass, or small capsule of Be.
The treatment of minerals by acids will be fully explained in its appropriate place.

## mingrals.

We have already described a mineral as an unorganized body, formed and enlarged by an inctease of particles, externaily ; said particles being attached by mere justr position instead of assimilation, as is the case with vegetable and animal organism. All solid substances therefore which pos are minerals, and the chief part of soils are mineral.

When a mineral has a metal of any kind associated with it, it is commonly called an ore-as an ore of silver, an ore of lead, copper, etc. Ores are usually found in veins, sometimes, however, in beds. A mineral bed usually lies orizontally, or at a very slight inclination. Lead, zinc and iron are often foun
very seldom.

## minerar veins.

A mineral vein may be described as a fissnre or crevice in the earth. more or less vertical, and filled with some kind of vein-stone, usually quartz, more or less mized or impregnated with various metals, and when so mixed, called ores. Most metalliferous veins contain several varieties of metals. The veins of California and Nevada Territory probably contain a larger variety of metals than those of any other portion of the globe, Veins rary in width from a fraction of an inch
to one or two hundred feet. They usually range from 10 to one or two hundred feet. They usually range from 10
inches to two or three feet in width. Of the origin of veins and the manner of their being filled, there are various theories. The opinions of practical and scientific writers on this subject are quite various. Some attribute these fisures to a process of cracking or opening of the earth in long fisures by some interior power of upheval; others attribute their formation to a contraction of the earth's crust in the process of sult from the action of electr cal currents. Their manner of filling up is also a matter of great diversity of opinion. Infilling up is also a matter of great diversity of opinion, Intrical agencies, etc., are among the most commonly entertrinal theories. The probability is that all the agencies named have contributed at times and in part in a greater or less degree toward preparing these valuable deposits, so indis peusable to the progress of civilization and the arts. Ouv present purpose, however, being to treat upon facts, we shall warks to simple facts and positive instruction. In future marks to simple whall probably have something to say on the var rious theories above alluded to.

## general laws of teins.

Whatever their origin these veins (or lodes as they are sometimes and perhaps more properly called) are, as a gen-
eral thing, found to obey certain general laws. They are eral thing, found to obey certain general laws. They are
usually contained within clearly defined walls, and are generusually contained within clearly defined walls, and are gener-
ally found in "setts" or "classes," each indiridual of any givally found in "setts" or "classes," each individual of any givThe different setts usually give evidence of different ages, the newest sett being found to have disturbed or displaced the older in passing across it. The different setts are usnally known by the general line of their direction as the "Eas and West sett of veins," or the "North and South sett of veins." They are usually found most productive near their cross.
class of rock, a a change in its mineral productiveness may be
most confidentiy expected. The point where a "leader" or north and south; the east and west series of veins is m ore string cowes in is usually improved by such contact. On recent and may be called secondary not caused by the coning ingement of a lode, where it is Mr. Remond of this city, who las paid much attention to not caused by the coming in of a feeder is almost invaria- the geology of the quartz veins of this state, remarks that
bly attended with comparative barreness. The scatiering of $\mid$ "the metalilerous character of the secondary quartz veins is lode into a number of small unes is almost universally, worthy of note. They bear gold, often iu crystalized form. anfarorable. They are, of course, of more recent origin which is very yarely tije case in lodes running north and than the rock which they traverse, through their general claracteristics and richness in mineral is often much affected by their passage from one class of rock to another. This latter fact would seem to imply that, to a certain extent, they
are dependent for their miueral valite upon the mechanical conditiou of the rocks which they traverse.

## true veins.

As we have already stated, veins or lodes are found traersing all kinds of roeks, stratified and unstratified, often passing from one to the other. They are also sometimes treen the slate and granite, metamorphic (rock changed by heat) and unchanged rock. Veins of this description are usually called "true veins," because they are much more reiable, more clearly defined, of greater linear extent, and gen erally mach larger than veins having both walls composed of
the same kind of rock. It is reasonable that these conditions should usually accompany veins of this description inasmuch as fissures between walls of dissimilar rock would naturally preseat less objections and distarbunces and be more coutinuous in both leugth and depth, than fissures forced through a homogeneous mass of roek. True metaly
liferous veius are almost uniformly much more productive hferous veins are almost unitormly much more productive
than other veins in the same neighborhood. The Comstock rein, in Washoe, is of this description. This is a condition in regard to quartz veins which should be more generally considered thau has heretofore been the case in this country It will, wherever it exists, be found to exert a most impor tant influence on the productiveness and consequent value the vein.

## igneous indications fatorable

Valuable metaliferons veins of ore are often found in secorndary and even tertiary formations, jet as a usual thing, they are found more universally productive and most reliable when they occur in the older and metamorphic rocks. Cerritore the proof of this in our own State and adjoining Slope, where is found the strongest evidence of ancient igueous action, have as a general thing. proved most valuable, in mineral developement. Iudeed, the idea has been advanced by some, that no metalliferous veins exist entirely disconnected with igneous rocks. It is claimed by the advocates of this theory that whenever surface indications are wanting, metamorphic socks will invariably bo found at no great depth below.

## pecollartities of gdartz veing.

The siudy of quartz veins, to the mineralogist and miner, is most interesting and important, and one to which quite too
ittle attention has been devoted in this country. In the hasty summary we are now giving, we cannot do the subject that justice which its importance demands; but in futare nunbers we propose to come back to this head and treat more fully upon it.
ce. The action of their true characteristics upon the sur the oxidation of much of their contents, and other disturb ing influences upon and proceeding from the surface, not unrequently lead to serious fallacies in judging of a vein in the early stage of its development. An important consideration in the study of veins is tue changes whech they undergo in their passage from one cla s of rocks to another.
l'his matter, so far as we have learned, has never been mucl This matter, so far as we have learned, has never been much
cousidered on the Pacific Slope, although it has long been acknowledged as one of much importance in nearly all other mining regions. We append the result of a few observations under this head from varivus authorities.
De la Beche in his survey of Cornwall says that granite and its modifications is always found near or all locations prodnctive of paying tin or copper mines; while lead, anti-
mony, iron and zine are found independent of and at a dismony, iron and zinc
In the Hartz montains, veins passing from hard to soft lates lose much of their productive character ; hard gramtes, as a general thing, are also found less productive than soft decomposed descriptions.
In the Copper mines of Lake Superior veins in hard greenstone are usually contracted and comparatively barren; but the same veins on entering the granular trap, a much more yielding material, becomes at once expanded, and improved in yield. North American mines. The Copper Fulls mine is highly productive und well defined in the trap, but mere fissure. Nearly all the veins of the Lake Supeiror region traverse different mineral planes, and in their passage It will be perceived that instances above cited confirm the correctness of our previous remark with regard to the favorable nature of igneous rocks in mineral localities.
We hare stated that veins are usually found in "setts" or clusters. Califurnia is no exception to this rule. The gen-
south. The ummorous threads or miuute veins crossing them contain much galena, in small leaf-shaped masses, and sumetimes in cubic crystals, with more ur less silver. These
lodes ulso contain muclí white iron pyrites, with some arsenical and copper pyrites.

The following paragraph, whiclf like the one above given, Pacifique, and, prophetic at the time, has been fully rerified by actual discoveries.

The combinations of these different metals suggests the possibility of the discovery of silver mines. Some speciarens taken from the quartz nines of Soulsbyville, resemble mixe mixed with lead, iron, arsenic, copper and a little antimony, the metals being in a condition of sulphurets. At Soulsbyville, the iron and lead predominate, and the other metals are in, smaller quantities, with a total lack of antimony.
No other portion of the world has been so carelully studed with reference to its metalliferous formations as Cornwall and Wales, and it has been asserted with much cunfolence, that a description of these veins would, generally globe. So far as their divection, length, depth, and dip are with regard to their contents, we apwrehend quitedistinctive characteristics will be noticed. No No one who has acquainted aimself with the quartz veins on the two slopes of the ficra, can have fuiled to notice most marked and distinct cham creristics between the two. Uther peculiarities may be noiced between those and the vems when are found far out toward the interior of the "Great Basin," and others still
more marked when we reach the opposite rim of the Great Basin in the neighborhnod of Pike's Peak, as will be seen from the following extraet which we gave in our issue of April $20 t h, 1863$, from a correspondent of the T'erricorial "Thpize
"The Pike's Peak ores contain no quartz. They are iron pyrites, more or less maixed with copper pyrites, lead, antimony, etc. * * * On sinking upon this no veinstone whaterer is found. The vein is a

In fact almost every vein has much that is pecnliar to itelf. Perhaps the most simple of metalliferous veins are hose known as "gold-bearing," and it is to those, almost exclusively, until within a short period the miners of Calitornis, have chiefly paid attention. Untilafter the wonderful developments of the Comstock lead in Wasthoe, not one prospectany other mineral than gold, which is alnost always found pure and free, and consequently readily known to the most unpracticed explorer. Hundreds of veins, in California, now knuwn to be of the highest value in silver and copper, were,
in the early days of our mining experience, passed, by as in the early days of our mining experienee, passed, by as
worthless, simply because they did not "show gold" in workng quantities.
ery few of our readers are ignorant of the ordinary indications by which the probable presence of quartz veins is noticed, or the manner usually employed in discovering their locality, or tracing their direction whenever found; hence we will not weary their patience by giving details so generlly known.

In examining into the phenomena of quartz veins on the Pacific Slope, it should be borne in mind that but a very imited time has elapsed since the first efforts of minirg were andertaken here. On the eastern continent and especially n Cornwall and Wales, mines have been wrought from time immemorial, and yet scarcely a year passes withont adding ap by the generations who have lived aud died in studying the theory of those mines, the details of their stiucture, the relation of those veins to the various ores which they contain, and to the enclosing rocks, etc, etc.

Many of our citizens complain of the apparent dilatori ess of our State Geological Survey, from the fact that one miners are not already put in possession of facts for which angish miners have patiently waited whole decades, and or which the English Government has purd an hundred fold more, than our Commission has yet asked for. Such perapon the solution of the various problems presented in the investigation of 80 complex a subject as the study of
such a wide and varied mining field as is found near and within the boundaries of the State of California.

## COPPER.

The recent discovery of numerous and valuable veins of copper, throughout the entire length of the State, and the onsequent especial degree of attention which is now being rawn to this new interest, has induced us to vary, to a cer cession of subjects, in such a paper as we have commenced. And in accordance with numerous requests to that end, we copper, which can be of any practical value to prospectors after, or workers in that mineral.

## the gempray of comper.

In referring to the comburical conditions under which cop-
eor is found. we shatl combence with (onnwall. a distriet curnishing hearly one half of all thes tin and copper prostaced

 oeen protraded thruarh shates ly igneus agonces from be
low. The general directiou of the copper vins is enst and West, and nearly at right anoles with the tin lucles. The ores
of cuppre and tin are seldon found in the sanse vein in CornFall, and neither metal is uften found in very great abundanec at a lass depth than so or 100 foet below the surface.
cupper veins in that district have boen traced several miles -in une instances seren, without any evidence of discoutinu-
ance even at that point. No persun has ever yet seen the ance even at that point. No persun lase ever yet seen the
buttom of a rein of either tin or copper. Ihe ores found
there are wavally the ydlow sulpharet of conper and iron there are wavally the yellow sulpharet of copper and iron. ret, red oxide, and native copper. The general averuge 0 these veins is aluot 2 'a per cent., hut which by dresing
actually brought to about eight per cent. brlure smelting.

Frasife affords but one workable mine of Copper. Nu merous mines have been wrought at varions periods in the past, but, we believe, with the above cxcrption, they has all been anmadoned. The coplprer veins of this country are
eserywhere found assuciated with aluminous slates, muro or less metamorphic, and among which, at frequent intervals, porphyritic rocks have heen protrudgd. The mines at Ches sy are directly at the line of junction of the granite and lias (the latter a species of limestone.)

Gbrmany,-The Copper Bines of the Eartz mountains occur in grauwacke slute in'o which aumerous belts of trappean rocks have been obtruded. The mines of Rheinbreitenbach are in the same character of
ductive in pyritoos variega ted copper.

Spark. - The general character of the deposits of this metal in Spain, is similar to those of the Martz mountains. In the Province of LIxeloa is a district of much mineral wealth, the formation of which is clay-slate, traversed by unmerous porphyritic eruptions, and it is near the line of con-
tact of the slates and porphyry that nearly all the metaliferous veins occur-the most valuable being directly between the two formations, having a wall of schistose slate on one side and porphyritic granite on the other; the former usually composing the stuth wall aud the latter the north wall of the veins. The veins are often found with both walls of por-
phyry, and sometimes, though unfrequently, with both of slate.

Prussia. - In the vicinity of Mansfield, in Prassia an interesting deposit-occurs, known as the "K eepferscheifer," or copper slate-a thin layer of which occurs in magnesian lime stone. Thronghout the entire body of this
slate" is disseminated gray argent ferous copper ore.

Near Schemnitz, in Hungary, is an interesting metalliferous region, which produces about 5,000 tuns of copper annually. The veins of this district are found altogether in porphyritic rocks, connected with sienites and passing into prate of barryta. The ores are pyritous and gray copper.

Norway and Swerden.-The veins of these countries are almost exclusively coufived to the gniess and mica slate, more or less metamorphic trom subterranean heat. The copper of
this region is highly esteemed in consequence of its purity this region is highly esteemed in conseque
and freedom trom arsenic and other metals.

Russia.--The copper deposits of Russia, in the Ural Mts., are also remarkable for the purity and richness of their ores The copper ores of this regiou are found chiefly in thin veins and nests of malachite, which lies in a broken, unconsolida. ted mass of detritus, overlying the surface of the upturued
edges of limestone strata, intermixed or rather intercallated edges of limestone strata, intermixed or rather intercallated
with ridges or ledges of tra: pean rocks. I'his malachite, though not in immmediate contact with trappean rocks doubtless owes its origin, indirectly to igneous action, being prob ably a secondary product resulting from cupriferous sublima tian, accompanied by stalagmite deposition.
Cuba.-The copper deposits of Cuba, like those in the Ural Mountain region, are not in regular veins, but in masses, in immediate connection with igneous rocks, such âs gveenstone aud serpentine. The gangue of these d posits is composed of quartz, and common white marble. The ore con-
sists chiefly of yellow sulphurets, although blue carbonate of sists chiefly of yellow sulphureta, although blue carbonate of
copper is not uncommon.
Cails.-The copper mines of this country are very numerous and of great value. They exist chielly in metaworphic granite, with veinstone of quartz and jasper.
In Australia the mines of copper are situated in an association of rocks quite similar 10 those formed in the Cornwall copper districts. The Barrossa district is in mica slate, similar to the killas (slates) of Cornwall. Through these simuar to the kilas (slates) of Cornwall. and sienites have
slates, as in those of Cornwall, granites and slates, as in those of Cornwall, granites and sienites have
been protruded, at frequent intervals. On the Copper Mine River, the enclosing rock consists of trap and sandstone with occasional layers of limestone.

In Lnter Cafifornia and Carmen Islands, we learn from verbal communication that the enclosing country of th

From the above data it will be seen that copper ores are
found in almasall all pusitions, from the most recent clay slatens tact with or in the inmellate vicinity of ignouls or he to morphic rocks. Perhaps no metal precent more uniforme er-
idence of an oriyin deriwed from an ignems navency than idence of an migein derived from an igneuts ngeney than
copper in its various ores. Of sto origin we shall speak at a future tine.
With the excer tion of irnn no metal, used extensively in the arts, is more generally distributed than copper. 'There is seurerly a known country on the globe where it bas not been found in workatble quantities
It is hurdly necessary that we should occapy space in a journul for Culiforuia readers, to direct them how to find or race a mineral vein; yet a few brief bints to aid the prosnector in determining whou he has found a copper vein may not be out of place.

## TO TEAT COPPER ORE.

Perhaps there is no characteristic of copper veins so general as their color. Whenever a mineral of a green or blue color is met with the presence of copper may be reasunably suzpected.
A very simple and ready method to test the presenco of copper in any ore is to drop a little nitric acid upon it, and after a short time dip a feather into the acid, and wipe it
over the hlade of a knife. If there be tho least quantity of eopper in it, the same will be precipitated on the knife. P'erbaps a siupler mode than this cannot be named.
A Bluw-pipe test may readily be made as follows:--Place a small piecce of copper ore, with a little borax on a piece of charcoal, and apply the flame of a blow-pipe, when if any copper is present it will soon show itself in a small globule.

Again take a small quantity of the ore and pulverise it; place the powder in a small vial, add three or four times its bulk of nitric acid, which will soon dissolve the powder; then add a little water, and dip the point of a knite, or any piece of bright iron into the liquid. If copper is present the iron will be found coated with it.

## MUNDIC-PYRITES.

One of the most common characteristics upon and near the sarface of a vein of copper is the appearance of large quantities of Pyrites-sometimes called Mundic. Whenver this mineral is so found, in great abuudance, especially $f$ in a region productive of copper, the miner may have the utmost confidence in prosecuting the work of developing his vein. Pyrites are most usually yellow, varying from nearly the color of gold to an iron white.
Pyrites sometimes contain, mechanically mised, small uantities of gold. They are then called "auriferous pyrites." the sold mines of Califurnia contain large quantities of this description of mineral, and thousands of tons are now being worked for this metal. They are, here, usually concentrated from the sands which have passed through the ardinary gold processes. One of the most extensive and perhaps the most thorough establishments for working auriferous pyrites, is that carried on ly Mr. Deetkin, a short distance from this that carried on by Mr. Dectkin,
city, on the San Bruno road.
Comper pyrites constitute the principal ore of that mineral, and frequently occur very massive, occupying the entire width of a vein, sometimes many feet in thickness, but oftener in strings and bunches comprising but a small percentage of the entire content of the vein. Copper pyrites is not considered a rich ore. The yield of copper is usually from 8 to 20 per cent, rurely reaching 25. The richness of this ore may generally be pretty correctly estimated by its efllor. If of a
fine yellow color and readily yielding to the hammer it may be fine yellow color and readily yielding to the hammer it may be t may be set down a sa poor quality of ore. The color und consequently the value of this ore is attributable to the more less abundunt presence of iron.

We hear much said among copper miners and prospectors for copper, about "gossan," and furthermore that the appearance of gossan is a good indication of copper-and so it
is. The question is also often asked, "What is gossan?" Gossan is nothing more nor less than decomposed mundic. or iron pyites. It is usually of a yellowish culor, sometimes, however, approaching to dark red. The more gencral composition of gossans oscilates between the two ex-

|  | No. 1. | No. 2. |
| :---: | :---: | :---: |
| Quartz. | 10 | 85 |
| Water, etc. | 10 | 3 |
| Oxides of Iron | 80 | 12 |
|  | 100 | 100 |

The term, gossan, originated in Cornwall, and for a time was local, but is now guite generally used in this country also. The existence of mundic or its common resultant, gossan, is not universal. In some rich mining districts no iron, ery little at most exists in the veins; in such, the ferru-
ous stain is wanting and gossan is not seen.
In Califorvia, we presume, from copper fxplorations thus far made, and from the general character of all our quartz veins, gossan will be almost universally met with, and whereever it or mundic is found, rich and valuable ores of copper, and possibly of tin may be confidently looked for at depths
rangiag from 15 to 100 feet beneath. Gossan, of itself, is ranging from 15 to 100 feet beneath. Gossan, of itself, is
generally of but little value. Althongh it sometimes congenerally of but little value. Althongh it sometimes con-
tains small quantities of both gold and silver, and not unfre.
quently copper. It is often found, in small quaditice, far
duwn on the vein, Bemoth vein.
Bemeath the enssan, we freguently wherve appearances (or procurng copper frem a solution of shl hate of copes 'I lee pare metal is fathered lugether in chinks, and cavities between the main muse of forsan and the herty of the undecomprosed chpper pyrites, minglitg preftapis with the lomor prart of the former. Fometimes this mative copper, as it is called, may retan its metalic character; but at whers it becomes convertedinto on oxide, and this again into a carbonate, ly the percolation of waters containing common air and carbonic acir.
With regard to the formation of this native copper, it is probable that the sulphur, by a union with the needful oxygen, becomes sulphuric acid, and that, this tormed, the copper is attacked and removed, to be dealt with like any other solution of the sulphate of copper.

We can hardly conceive it possible that the copper from a fuid state, has been forced up from below like dikes of porphyry or greenstone. An elastic force sufficient to raise 8 fluid mass of three times the density of lava would shatter the enclosing walls, and furce the copper into the tissures. If this were its origin, we ought to find it occupying the depressions in the surface rocks in the vicibity of the fissures, like modern lava carrents.
We find the the copper investing varions crystalized minerale, and every wave and stria of the pre-existing crystals is faithfully represented, it is impossible by any artificial method to oast this metal so as to exhibit such minute linee. They are as delicate and faithful as could be obtained by the elec trotype. Again the associated minerals do not exhibit the effects of a high temperature. Also, if the contents of the veins were the result of injection, their productiveness would be unaffocted in their passage through different mineral planes, Lastly, copper and silver combine in indefinitè proportions, forming homogeneoas compuands ; and yet we find them existing side by side a most chemichally pure. Admitting that they once formed a homogeneous compound, it is reasonable to suppose
tro-chemical agency.

The ores of copper are quite numerous and present a great diversity of appearance, yet they are all very readily distinguished, each from the other, by certain unmistakable characteristies, which are rendered familiar by a very little attention. The presence of copper in any ore having been determined by the "test" above given, the character of the ore can, in most instances, be determined by the following description:

The ores of copper are divided, by metallurgists, into 13 different classes, and each class is subdivided into many varieties. The richest of the ordinary ores appear under two general aspects : the first having a metalic lustre of copper red, brass yellow, iron or blackish gray, at times inclined to blue; the second is without metalic appearance, of a reddish color. verging upon purple, blue or green, the last being the most usual tint. The classes of ore most frequently occurring are Native Copper, Sulphuret of Copper as Copper Pyrites, Gray Copper, Suluhate of Copper, Oarbonate of Copper and Arseniate of Copper. The most common are sulphurets and oxides, the former being the most abundant. Sulphuret of Copper occurs in all considerable copper diatricts, and is abundant in California. The color of this re is a blackish lead gray, approaching, at times, to tarnished blue green. It is considered one of the richest ores, and generally occurs in very beary veins.

Copper Pyrites greatly resemble in appearance, sulpnuret of iron, common in the gold bearing quartz of this State. The color of the Pyrites is brass yellow, subject to taraish, with greenish black streak and uneven fracture. Oopper Pyrites are readily distinguished from iron pyrites, which they greatly resemble, by their inferior hardness ; they may be cut with a knife, while iron pyrites will strike fire with steel. A marked difference may also be noticed in the effects of nitric acid upon the two substances. They do not form so rich an ore as sulphurets. The richness of the pyrites may generaily be judged of by their color. If they present a fine yellow hue, and readily yield to the hammer, they may bo cousidered a good ore; but if they are hard and of a pale yellow color, they are mixed with iron pyrites and consequently comparatively barren of copper and constitute a poor quality of ore.

Carbonate of Copper is of a blue or light green color, with
ale green streak. It often occurs in beautiful green eryspale green streak. It often occurs in beautiful green erys-
tals. It is also known as Malachite. Green Malachite or Green Carbouate of Copper admits of a high polish like marble, and when obtained in lurge slabs, is often formed into tar bles, mantle pieces, etc.

Arseviate of copper is of various shades of olive green, and sometimes occurs in beautiful blue crystals. It readily melts before the blow-pipe, throwing off funes of garlic odor This ore is but little worked.
Gray Copper ore is of a steel gray color, more or less
deep, either bright or dull. The value of this ore is often deep, either bright or dall. The value of his ore is often
very materially increased by reason of the silver which it entains. It is generally accompanied, to a greater or less Suiphate of copper (Blue Vitriol,) is similar to the artifi-
cial salt of the laboratory．The water flowing from mines of＇it will probably be with this description of ore．When so this ore has a blue tint，caused by the solution of this salt．fuand it is usually in about the following proportions：－Cop－ Copper is easily oltained fron this water，in a metalic state by depositin！pieces of scrap iron in it．
［＇The ores above named are about all the ores of copper worked to any considerable extent．］

Native Copper occurs in crystals，branches，and filaments， its most common locality being in prinitive rocks．It is found abundantly in Siberia，at the mines of Tourinski，in those of Hungary，Sweden，Cornwall，\＆c．The gangues of native copper are granite，gneiss，mica－slate，clay－slate，quartz， carbonate or fluate of lime，sulphate of harytes，\＆c．
Red oxyde of Copper is deep red，sometimes very lively，es pecially when bruised．It is friable，difficult of fusion at the blowpipe，reducible on burning charcual，soluble with effer－ vescence in nitric acid，forming a green liquid．
Black oxyde of Copper is of a velvet black，inclining sometimes to brown or blue；and it acquires metaliclus－ tre on being rubbed．It is infusible at the blowpipe．
Hydrosilicate of Copper consists essentially of oxyde of copper，silica，and water．Its color is green ；and its frac－ ture is conchoidal with a resinous lastre，like most minerals which contain water．
Dioptase Copper，or Emerald Malachite ；a beantiful but rare cupreous mineral，consisting of oxyde of copper，car bonate of lime，silica，and water in varying proportions
Phosphate of Copper is of aw emerald green，or verdir－ gris color，with some spots of black．It presents fibrous or tuberculous masses with a silky lustre in the fracture．It dissolves in nitric acid without efferrescence，forming a blue liquid i melts at the blowpipe，and is reducible upon char－ coal，with the aid of a little grease，into a metalic globule． Its powder does not color flame green，like the：powder of mariate of copper．
Muriate of Copper is green of various shades；its powder imparts to flame a remarkable blue and green color It dis－ solves in nitric acid without effervescence ；and is casily re－ duced before the blowpipe．Its density is $3-5$ ．By Klap－ roth＇s analysis，it consists of oxyde of copper 73，muriatic acid 10，water 17.
The copper of Lake Superior contains about 3－10ths of one per cent．of silver．The copper of this State，mostly if not all，doubtless contains an appreciable quantity of both gold and silver．Of this we shall probably receive more definite knowledge when full returns are received from ores which have been sent East for reduction．A little metallurgical knowledge will be lound of vast importance to the miger everywhere，and especially in California，where the mineral deposits assume such unprecedented profusion．Our miners deposits assume such unprecedented profnsion．Our miners liar with copper ores，as they have，for the last ten years， been with gold．
the comparative value of some of the most common of the

## ores of copper．

Native Copper generally occurs almost pure，and in al－ most every cunceivable form，as massive，grauular，filiform （thread－like，）arborescent，in thin laminæ，etc．When found associated with other metals，such as silver，for instance，the two metals usually occur in juxtaposition，simply，and not combined，a condition which they readily assume when melted together in the crucible．
Sulphuret of copper is very rich ore，yielding copper 76．5； Sulphur 23；and iron ．5．
Red Oxide of Copper is a very rare and rich ore．Very little，so far as we have learnerl，has yet been found in this State．When free from earthy impurities its yield is 88 ＠ 91 of copper，and 9 ＠ 12 of oxyg＇en．

The Black Oxide of Copper，in its pure state yields from 70 ＠ 80 per cent．of copper．Both the black and red nxide yields readily in the reducing flame of the blowpire a globule of copper．
Variegated Copper Ore（Peacock Ore）gives 50 ＠ 56 per cent．of copper，and promises to be quite common in the mines of this State．
Copper Glance，or Redruthite yields from 70 ＠ 75 per cent．of copper，when quite pure，and in that condition may be readily melted in the ordinary flome of the candle．
It sometimes，though rarely．occurs in connection with Bis－ muth，when it falls as low as 18 to 20 per cent．＂
Antimonial Copper is neither very common or ricb．It yields $20 @ 75$ per cent．of copper．An ore of the latter
yield occurs on the Colorado，near Williams Fork，in this state．

Green Carbonate of Copper（Malachite）in its pure state contains 75 per cent of copper．

Biue Carbonate of Copper is usually a richer ore than the green and contains from 65 to 70 per cent．of copper．

Gray Copper，is a very rich and promises to become a quite conmmon ore，in this State．Its yield of copper is from
40 （a） 50 per celt．This often contains as high as ten per cent of silver，and sometimes a small quantity of quick－ silver．

Copper Pyrites is the most abundant of the ores of copper and usually ahout the poorest．Its yield is greatly affected by the presence of irou and varies from 12 to 30 per cent． sarely，however，reaching 25.
If in is ever found associated with copper in Califo，nia
per $30 ; \operatorname{tin} 26$ ；irou 14 ；sulphur 30 ．
ndications of tin pyrites－associated with coppler．
Tin Pyriles occurs massive，like copper；its lustre is me－ talic with streak black；color from steel gray to iron－black，
sometimes presedting a blueish tarnish，with an uneven frac sometimes presenting a blueish tarnish，with an uneven frac－
ture．When heated in an open tulue it gives off sulphnrous fumes，with a slight sublimate of the oxide of tin．On char－ coal，with the blow－pipe，the sulphur is first expelled，after which a dark scoriaceous（partaining to dross，like the dross or scoria of metals）globule is obtained．The charcoal will also be coated with the oxide of tin．With soda，a globule of im ure copper is ohtained．
This species of pyrites may be more confidently looked for in a granite rather than a slate reg on．Copper miners will do well to keep a good lookout for this mineral，as，if found it will be a valuable ore．
Arsen cal Copper．（Domeskite）which may be known by its eniform and botryoidal appearance，（reniform，having the shape or form of kidneys；bot ryoudul，shaped like a bunch of gapes）is a very rich，though somewhat rare，ore．It yields， when pure，about 70 per ceut．of copper，and 30 of arsisnic． Its compusition sometimes varies so as to bring the copper as low as 60 ，with arsenic 20 ，and 20 parts of irou and sul－ phur．
Sulphate of Copper yields about 25 per cent．of metal，and occurs irregular in shape and in three－sided crystals，with a lossy lustre，approaching the sky－blue，in lustre．Tbis min－ ral is often fouvd dissolved in the water which issues from the mine．The copper from these waters is obtained by pre－ cipitation with iron．At a mine in Wicklow， 500 tons of iron were laid at one time，in the pits into which the water was collected，and in about twelve months，this iron was all decomposed or disolved，and each ton of iron was found to have deposited two and a half tons of a reddi－h mud，which was an＂xide of copper，and which upou proper treatment yielded 15 cwt of pure copper to each ton of oxide．

## MINING STATISTICS．

The value of mineral products in Great Britain，in 1855， amounted to one hundred and sixty－one million dollars，and When prepared for manufacturing purposes，$\$ 190,000,000$ ． The relative proportion of which coal appears to amount to 49 per cent．；clays，slates and sundries， 23 ；Iron 13 per cent．； Copper 8 per cent．；Lead 4 per cent．；Tin 1 per cent．The production of iron increased 300 per cent．in 28 years，end－
ng prior to 1855 ，and anounting to $31 / 4$ million tons．The average per cent．of copper fur ten years，ending 1785 ，was 12 per cent．；for ten years ending 1855，71／2 per cent．；for 1857 was $63 / 4$ per cent．These figures clearly indicate the eco－ nomical value of improvements which have been effected in the working of he mines．The number of people employed in these adventures，was 304,000 ，of which 91,1100 were fe－ males，and those under 20 years of age．The number of these adventurers 3,271 of which there is 172 copper vein
leads， 330 tin， 156 residue ： 11 coal and iron mines．When we talke into consideration the enormuas amount that is real－ ized to the Kingdom of Great Britain trom her mineral re－ sources who can predict the future of the Pacific coast，with the existing facts in view whilst the character of our mines is much richer and we can multiply the ir metalie veins by
tens of thousands by the assistance of a Pacific Railroad and tens of thousands by the assistance of a Pacific Railroad and
time sufficient to develop the resources：：The Pacific slope will，in less than 26 years，produce more in value of the pre－ cious metals than the bulance of the world．－［Marysville Appeal．
Shory Chimeys．－A correspondent of the London Buider gives the following cure for a great and common

I have built many chimneys in all possible situations，and ave found one simple plan everywhere successful；the only secret being to construct the throat of the chimney（the part just above the fire－place）so small that a man or boy can barely pass through it．Immediately above，the chimney should be enlarged to double its width，like a purse，to the extent of about two feet in hight，and then diminished again to its former proportions．No chimney thas constructed will ever smoke．

The Copper Smplters of Swansea are crowded at the present time with orders：．The recent advance in the price of copper has given a new impetas to the working of the mines．The mining interests of Great Bri ain，generally， were never so flourishing as at the present time．Bura copper is quoted at $£ 100$ ；Rapuda at $£ 102$ and Chili at $£ 90$ ．Iron has largely advanced with confirmed and increasing demand． Buyers in the metal market，at latest dates were operating freely，and there was every prospect of prices being main－ tained．Much confidence was also felt that a further and considerable rise will take place．
Riverside．－This is the name of a new＂city＂just laid out in Keys＇Mining District，Owens＇s River，ninety miles south of Aurora，and fifty miles above Bend City．

## PRICE OF GOLD．

We observe，says the Mercantile Gazette of the 22d inst． from the tenor of some of our recent Eastern exchanges that more reasonable views are being entertained in regard to the advance in Gold．Instead of attributing it so largely to the movements of speculators and heuping maledictions upon the ＂Gold mongers，＂they are now willing to admit that under all the circumstances，the marvel is not that Gold has ad． vanced，but that it has not adranced more．The large ad－ verse balance of trade－the light export requirement for our surplus products－the dwindling of Giold receipts from Cali－ fornia－the continuance of large shipments of treasure from the Atlantic cities，the absorption of coin by Government for customs，and the increased issuance of paper are recognized as causes adequate to an advarice of 30 cent within a month．＂Nothing，＂says the U．S．Economist，＂but the lopes excited by our recent successes could have prevented a much greater advance than has actnally occurred．Al things considered the balance of probability indicates a con－ tinuance of high prices rather than a speedy fall to the late low range．＂
The demand for gold，on foreign account is very great at the present time，and an increased sapply is thought indis－ pensible to Europe．The Mexican War，the Polish insur－ rection，the generally troubled condition of Enrope，the im． mense call for specie for the purchase of cotton in Egypt and India，and the increase in America of exports all combine to make the present demand for gold urgent in the extreme． There is at this moment a balance of about $\$ 65,000,000$ due the East which must be covered by remittances in specie． The recent advance of the rates of discount by the bank of England to eight per cent is mainly owing to this pressing demand．
The London Economist gives a much greater prominence to the drain of the precious metals to India and East，than does the Times．The imports of Raw Cotton from those countries during the current year，as compared with 1862 hows an excess of $\$ 80,000,000$ while the increased export of both Treasure and Merchandise in that direction is but 10 per cent of that amount．Silver is the favorite remittance to Orieutal markets，and the demand for it has，in the opinion of the Economist，been the chief cause of the pecuniary pres－ sure，which has advauced the rate of disconnt within a few months from 2 and 3 per cent perannum to 6 and 7 per cent， and 8 per cent，as we learn by the latest telegrams．The general Continental demand is ascribed by the Econess to the troubles in Poland，the disturbance in Hungary，the heavy expenses of the Turin and French Governments，and the critical condition of Germany in consequence of the unset－ tled state of the Hulstein question．Public stocks have greatly declined at London．
Raising Wreckrd Cargoes at the East．－Apropos to the question of the possibility of raising the Aquila，comes the fo lowing from a late number of the Providence， $\boldsymbol{R}$ ．I Press，of a late date：
＂The Medford Wrecking Company are pursuing their operations in this vicinity，raising the cargors of wrecked vessels．The job they are now at work on is the naising of a cargo from the wreck of a vessel which drove into West Dumpling Cove iut a storm，ten years ago，and went down in four fathoms of water．Her cargo consisted of two bun－ dred tons of heary block granite，weighing several tons each ；in the cargo were two blocks of hewn grauite，worth $\$ 500$ each．For this cargo，or such portion of it as they may be able to raise，they are to receive $\$ 4$ per tom，deliver－ ed on Long Wharf．They operate by means of divers，pro－ vided with the usual submarine armor．There are four of these who relieve each other at regular intervals of two or three hours each：Having completed this job，there are two other cargoes of granite，severally on Beaver trail and Point Judith，which they design raising．Luring the last war with Great Britian，a transport loaded with brass ordnance was sunk in the harbor of Newport，the locality of which this company will endeavor to determine by explorations，with a view of raising the guns．
Action，by the Chamber of Commerce，upon the question of raising the Aquila has been suspended，for the present， on account of the reception of a dispatch to the effect that the Government and underwriters have come to an under－ standing with regard to the question of＂liability．＂As soon as telegraph communication，which has been suspeneed for a few days，is once more opened，we may expect to see some decisive and energetic steps taken in the matter．

25,000 persons are I ngaged in Pera in obtaining india－rub－ ber to supply the foreign demand．

## IININGAND SCIENTIFIC PRESS

## TEE OLD AND NET VOLOMES．

To perfect the destred tmprovemiente tis our new meriom of the 3sixima arb
 formprly，and for conventetce in thntlum wo retuce the tern of nur volume


 theciptes refcmily given fuesubuery pently the actuat nge of the pagner．Ou





 made fire inatance，a mulweriber holding a recelpt givens Deceintior lht，IWiz， runing from No． 5 of Vol VII to Ni．S of Vol．V18t，will tee duly eredted，by

 and zion of Yul．IX－annikiog to all 52 coplea

A Letrer from our traveling correspondent，written from Knight＇s Ferry，and intended for this issue，is unavoidably defered until our next．

Advertigers will please take notice of the change，for the future，in our day of publication from Monday to Satur－ day．They will please hand in their favors at as early an hour，on Friday，as possible．

The commerce of the world requires $6,000,000$ able－bodied men to be constantly traveling the sea；of this number 7,500 die every year．The amount of property anuually moved on the water is from fitteen hundred to two thousand millions of dollars；and the amount lost by casualities of the sea average
twenty－five millions of dollars．

| VIRGINIA CXTY STOCK List． |  |
| :---: | :---: |
|  |  |
|  |  |
| Virginas Mining District． | Unto |
|  |  |
| 2740 | Unim |
|  | W．Scutt． |
|  | Was |
| Belvidur |  |
| Birdsall ．．．．．．．．．．．．．．．． 1514 | 20 |
| Bajaz t acth Gurlers Lra．．．． 1230 |  |
|  |  |
|  |  |
| ${ }^{\text {B }}$ |  |
| Bluentugatat．．．．． |  |
|  | Baltic．．．．．．．．．．．．．．．．． $85.88^{85}$ |
| Ceve ．．．．．．．．．．．．．．．．．．． 8 － 1 1 |  |
| Cummire | Bramch mint ．．．．．．．．．．．．． 12440 |
| Consollduth Cedar Hill．．． | Caledouia tunaul ．．．．．．．．．－－ 40 |
| Durg．n．．．．．．．．．．．．．．．．．． | Cuppers ．．．．．．．．．．．．．．．．．－${ }^{35}$ |
| Empire．．．．．．．．．．．．．．．．．．－ 12 | Comblaed effrort．．．．．．．．．．．． 60 |
| Eldur．ult．．．．．．．．．．．．．．．．． 31 50 |  |
|  | 1rardanelie |
| Grusg Vahe | kurekn．．．． |
|  | forcade \＆Kicard <br> Fruj View |
| Hırıisun，isu．Fian．lucer．－ 3 | Gold Hill，Big Leilg |
| Hendorson | Guddon fa |
| Hou | Gindeo Ea |
|  | Hawkryo |
| Indus | Hudsol |
| Irviay．．．．．．．．．．．．．．．．．$={ }^{25}$ | Hornce |
| nsurauce．．．．．．．．．．．．．．．－ | nueflende |
| Wa |  |
| Indus | L．eon |
| Jupinta ．．．．．．．．．．．．．．．．．． 510 | Laboriog |
| Keystnc．．．．．．．．．．．．．．．．－－ | Lucerue |
| osha ．．．．．．．．．．．．．．．-12 | Lunis And |
| La Crosse．．．．．．．．．．．．．．． 25 15 | Lafryyote ．．．．．．．．．．．．．．． 1018 |
| Lnocer ．．．．．．．．．．．．．．．．．－－${ }_{12}^{8}$ | Lr siotto ．．．．．．．．．．．．．．．．－ 100 |
| Monte Cristo．．．．．．．．．．．．${ }^{8} 12$ | Mary Anb．．．．．．．．．．．．．．－ 100 |
| Meresith \＆Hurst ．．．．．．．－ 70 | Michigan．．．．．．．．．．．．．．． 30 100 |
| Mt．Divi | Jusson |
|  | North American．．．．．．．．．${ }^{50} 100$ |
| McBee ．．．．．．．．．．．．．．．．．．－${ }^{25}$ | North Ophir．．．．．．．．．．．．．． 10 |
|  | （verman，．．．．．．．．．．．．． 360440 |
|  | Oricuul |
| Stadiso | Omes |
|  |  |
| Moruy | Ninalua |
|  | Swrezy ．．．．．．．．．．．．．．．．．－－is |
| 10 |  |
| khamd ．．．．．．．．．．．．．．．．．．．${ }^{10}$ | sunrive |
| Orimutal．．．．．．．．．．．．．．．．．${ }^{\text {3\％\％}}{ }^{6}$ | Unton M．Cu．．．．．．．．．．．．－ 12 |
| Osceolh．．．．．．．．．．．．．．．．． 512 | Uncle sam．．．．．．．．．．．．． $400{ }^{470}$ |
| 12 | White House．．．．．．．．．．．．．．．${ }^{15}$ |
| Phonuix ．．．．．．．．．．．．．．．．．${ }_{20}^{12}$ | Veasulus |
| Pride of Wasboe ．．．．．．．．．．－ 20 | Yellow Jacket |
| Peyronil．．．．．．．．．．．．．．．．－－ | Yolo ．．．．．．．． |
| ${ }_{\text {Pourman }}^{\text {Peracerance }}$ ．．．．．．．．．．．．．．．－${ }^{\text {a }}$ |  |
|  | Devil＇s Gate Distric <br> Bob Black |
|  | Governor Nye ．．．．．．．．．．． 815 |
| Ree irder．．．．．．．．．．．．．．．．． $8_{8}^{8} 10$ | Huwley |
| 20 | Mouterey ${ }^{\text {Pr }}$ |
| 25 | ${ }^{\text {Pride of the West ．．．．．．}}$－．． |
|  | Ploueer．．．．．．．．．．．．．．．．．． 20 Parce |
| 20 | Park |
| Sierra devada ．．．．．．．．．．．－－ | Winaemuct |
| $\begin{aligned} & \text { imen } \\ & \text { rock } \end{aligned}$ | Wide West |
| ．．．．．．．．．．．．．．．．．．－ 17 | Flowery Distri |
| Sirles | Atwill ．．．．．．．．．．．．．．．．．．．．．．．． 3 |
|  | Anriat |
|  | Hur |
| ．．${ }^{-1}$ | Uucle Sam ．．．．．．．．．．．．．－ |

## HEPORT UF BID

At the Ban Hiramelned Mintrgy stock Boered


## SALTES FOR THE WEEK ENDING DEC．，26 186

MONDA
100 Lady Bryan， 25 per abare． 10 Lady Byran， 2216 ner share． 20 La 200 Ladly Bryan， 35 a shate．
30 Lanly Brynu， 35 \＆share．

$$
\begin{aligned}
& 20 \text { Lady Bryan, } \$ 63 \text { pr alnre. } \\
& 10 \text { Lajj Pryan, \$30 pr share, } 30 \text {. } \\
& 5 \text { Lady Bryan, } 56 \text { pe slare. }
\end{aligned}
$$

$$
\begin{gathered}
20 \mathrm{La} \\
10 \mathrm{La} \\
5 \mathrm{La}
\end{gathered}
$$

25 Lady Rryad， 937 分第 share．


$$
\begin{aligned}
& 10 \text { Lalif Fryan, } 830 \text { pr share, } \\
& 55 \text { Lady Bryan, } 25 \text { per skare. } \\
& 29 \text { Ludy Bryan, } 28 \text { per share. }
\end{aligned}
$$

$$
\begin{aligned}
& 5 \text { Lady Bryan, } 25 \text { jer share. } \\
& 29 \text { Lady Bryan, } 28 \text { ner share, } \\
& 200 \text { Jady Bryan, } 32 \text { 何 per shar }
\end{aligned}
$$ 15 lady Bryan． $37 \frac{3}{5} 7$ ．

5 Bullion，G．H．， 256 pr share

$$
\begin{aligned}
& 29 \text { Lady Bryan, } 28 \text { per share. } \\
& 200 \text { Jady Bryan, } 32 \text { per share, b30. } \\
& 90 \text { Lady Bryan, } 13 \text { \% per ghare. }
\end{aligned}
$$

 10 tiolden Swan， 20 per share
9 Burnside， 89 jer share

$$
\begin{aligned}
& 100 \text { fady Bryun, } \$ 123 \text { pr } 8 \text { hare, } 680 \\
& 90 \text { Lady Hrya, } \$ .88 \text { per share, } 30 \\
& 61 \text { Lady Bryan, } \$ 29 \text { per share. }
\end{aligned}
$$ 9 Burnside， 89 mer share．

20 Burusile， 10 \％hare

$$
\begin{aligned}
& 61 \text { Lady Bryan, \$29 per share. } \\
& 2 \text { lady Bryan, \$30 per biare, } \\
& \text { So }
\end{aligned}
$$

$$
\begin{aligned}
& 61 \text { Lady ryan, } 2 \text { per snare. } \\
& 20 \text { lady Bryan, \$0 per share. } \\
& 30 \text { lady Bryan, \$28 per share. }
\end{aligned}
$$ 5 Wide West， 52 per share．

15 Wide Wpst，$\$ 55$ per share，b $\$ 0$

$$
\begin{aligned}
& 30 \text { lidy Bryan, \$28 per share. } \\
& 10 \text { Lndy } \text { B yan, } 881 / \text { per ahare. }
\end{aligned}
$$

16 Choliar， 710 per font．
22 Lady Bryat， $323 / 3$ per share．
10 Lady Bryan， 35 per share． 12 Ophir， 1540 per foot．

$$
\begin{aligned}
& 10 \text { Lady B yan, \$8 } 16 \text { per share. } \\
& 197 \text { Lady Bryan, \$8 per share. }
\end{aligned}
$$ 12 Ophir， 1545 per fool． 20 Chollar， 700 per foot a 80. 7 Blae Ledge，EI Dortido co．．$\$ 7$ ．

6 Blue Lettge，El Dorado co．，$\$ 7$／ | 6 Blue Leitge，El Dorndo co．，$\$ 7$ 夋 |
| :--- |
| 5 Crucsett Cnus．， 825 ． |
| 8 |

$$
\begin{aligned}
& 20 \text { Ophir, } \$ 1550 \text { per font } \\
& 10 \text { Burniug \$loscow, } \$ 13 \mathrm{i}
\end{aligned}
$$ 5 Cruckett Cnus．， 825 \％share．

10 Omaba，copper，$\$ 1 \%$ ．

$$
\begin{aligned}
& 10 \text { Burning Hoosow, } \$ 130 \mathrm{pr} \text { foot. } \\
& 25 \text { La } 1 \text {, Bryan, } \$ 38 \text { per share, b3 }
\end{aligned}
$$ 10 Omaba，copper，\＄13．

5 Union，R．D．．\＄31／pir nharo．
00 Lady Bryau，$\$ 37 / 1 / 7$ sharo．

$$
\begin{aligned}
& 25 \text { Laty Bryan, } \$ 38 \text { per share, b3 } \\
& 32 \text { Burning Moncow, } 130 \text { \# fool, r } \\
& 20 \text { Burning Moscow, } 135 . \text { b } 5 \text {. }
\end{aligned}
$$

$$
\begin{aligned}
& 20 \text { Burning Moscow, } 135 \text {, b } 5 \text {. } \\
& 20 \text { Burning Moscuw, } 129 \text { ze loot. }
\end{aligned}
$$ 10 Lady Bryan at $\$ 38$ per share．

25 Lady Bryan，$\$ 10$ per share，b ao

$$
20 \text { Burning Mascuw, } 129 \text { \%oz }
$$ 25 Lady Bryan，\＄40 per share，b a0

$$
\begin{aligned}
& 4 \text { Choliar, } 715 \text { per font, } \\
& 16 \text { Cholliar, } 710 \text { per foott. }
\end{aligned}
$$ 20 Golden Swan al $\$ 25$ per ahare．

10 Felluwz nt $\$ 80$ ot share b 30 ． $\$ 5$ Bankers Co．，\＄17， 25 Bankers Co．，$\$ 18$, b 20
25 Mi, Bullion Cons．，$\$ 5$.

5 Sierra Nevadn， 82 per share．
5 Blue Ledge，Fl Durado co．， 7
40 Mrinnes， 75 per cliarg，b 30 ．
40 Mrinnes， 75 per sliars，b
20 Silloges， 70 per share． 20 Mimpaes， 70 per shar
10 Mel Mues， 69 per share． 10 jteloner， $872 y / 2$ pr sbare，b 30 ． 15 Meloh．S，\＄70 per share．
10 Utah．\＄5 per aliare．
10 Bunlinh，ti If， $5 t$ per sharo
10 Burningemoscow， 140 per ft，b 30 $\because 0$ Buruiug Mascow， 130 per ft，b 30 20 Burining Mrscow，$\$ 132$ 年，b，
10 Burning Soscow， 130 per tt． s0 Burning Moscow， 130 or ft

## 0 Sheba， 150 ner foot， 8 Chollar，$\$ 680$ per font，

8 Chollar，$\$ 680$ per fint．
18 Chotlar， 675 yer foot， b 30
36 Ophir．$\$ 1550$ 15 Feet Could \＆Curry dividen December．，$\$ 140$ per foot．
10 Omaha．（copper，
 10 Baltimure Amuricnn，\＄28，b 30 10 Ballimore Amer＇n．．\＄30，b 30 50 Baron Humboldt，H．， 86, b 80 ．


ENLARGEMENT AND TMPROVEMENT OF THE MENING AND SULENTIKLC PRESE．

SATURDAY，JANUARY 2． 1863.
The publighers are pleased tn announce the enlargement of this Jourual on the 2d of January next，from eight to sixteen pages－double its pres－ ent size，

## notice．

The pubitcation of the Mring and Scizatipic Press will heraafter be C．W．M．Smazi， W．B EFBr， A．T．DEwEy．

## TERMS OF SUBSCRIPTIONS．

Opon cularging our sbeet，we have determined to adbere atrictly to the advanco payment for aubseriptions，and shal！make ouly a slight advanco old pricea．Our rates，hereafler，will be as follows：－For one year，कs； \％months．$\$ 3$ ．By city carriers， 50 cents per month．

## To Advertisers．

The circulation of the I＇Ress throughout all the Bfining Districts of this tate and Nevada Terrilory，renders it a desirahle advertising medium for Hining Companies，Inventors，Patantees，Machinats，Manufucturers，Build－ atal Tradesmen．Terms reasouable and uniform， anded in at an early day．

## acramento Agency．

W．B．Rice，at the book－atore， 146 J street，between 5 th and oth，is our Ageat for Sacramento city．

## Owr Adiress．

Parties addressing this office shutd be particular to write tho nam Mming AND Sonenturic Priss＇s in full，to avoid ell liabilities of mistakes．

Mramg Agexcr.- By reference to our advertising columns it will be seeu, that we have made arrangements Wo obtain special information, through a resident corres pondent, with resard to any particular mine at Recse
Fiver. Parties in ihe city about to invest in "feet" Fiver. Parties in the city about to invest in "feet"
in that neighborliond, and not having time or caring to incur the expeuse of visiting the locatlity, will to well to avail themselves af the opportunity herebr presented in securing relabls information, previous to fnvestment, at a moderate cost.
Persons already bolding " feot " and desifrous to loarn throngh a disinterosted source the actual coudition of the mine in which they may be interested, will do well to embrace the opportunity here presented of securing the desired information.
We slalil establish agencies similar to the nbove in al

## A New and Valuable Book.

Process of silver and Gold Extraction, former manager of 'the Ophir Works, \&e; 350 pages oc tave illustrated
This admirab
This admirable work has met with the highest comand able exposition of the science as pracised in California and Nevala Territory - It is written for the people In grod plaid Engisit ana finely illustrated.
Price-post pard-filoch $\$ 6 ;$; Been $\$ 7$
Price-post pad-Filoth s. is; iheen $\$ 7$
Bookstlers, Importers and Publishors, nerso San Francisco

Tabor \& Hill
Stock Brokers \& Real Estate Agents, 502 Arontgomexy St., cor. Sncramento,
Buy and Sell Mining Stock on Commission. ArememDers of the San Francilsco Stock \& Exchange Board, and of the, San Francisco Board of brokers.

## Giffards Injectors,

$\mathrm{F}^{\text {OR SOPPLYING OLLERS WITH FEED W ATM TER }}$
 $j 022$ Cor. Pine and Front sts, San Franciscut.

VULCAN IRON WORKS COMIPANY,
P. Torquet, Manager,

STEAM ENGINE BULLDERS
BOILER MAKERS,
Iron Founders and General Engineers, No 137 \& 139 First street, San Francisco.
Pumping, Hoisting, Mining an nartz-crushiug Maabinery.
Stoess and Dies of the hardest iron,
Steambost Machinery : Saw, Flour and Sugar Miills. High und Law Presuro Boilers of all syly ses.
Jowit and other Turbiue Wuter Wheels with latest mprovements.

LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET IRON The only exolusivoly Euler Making Estra lishment on Boiler Makers. All orders for New Werk, the repaicing of Old Work, executed as ordered, and warranted as - quality.

Old Stand, corner Bush and Market Streets, Opposite Oriental Hotel, San Francicon, Cal. LEWIS COFFEY
IHEODOR KALLENBERG
Maker of Models FOR INVENTORS.
M Actines, Mathematical, optical and Philosophical Iustrumnots, siales, Weights, etc.; Repairing of Machinery promptly attended to.
No. 418 Market street, San Franci n7.3m) Sau Fraucisco.

## KUSTEL \& DEETKEN'S

METALLURGICAL WORKS,
SILVER AND GOLD ORES Tallings, Sulphurets, Arsenuirets, Efc., Etc., Cupellation and Reintug of Silver and Gold, Practical Assays for Silverand Gold, a Small and Large Quautities, by Smeltiag, Culorination
Worge-On the sad Pan Mmipulation.
Wrrgel -No. Ges huntgomery st, San Francisco. nov 7 ti.

## GENERAL NOTICES



## DR, H, AUSTIN,

 DENTIST,
## No. 634 Washington street,

Between Montgomery and Kearny
Baths.)
I have recently received from London a New and Beautiful Vulcanite (India Rulber) for artificial Teeth,
whirk is far superior to any other ever used, It is light Which is far superior to any other over used, It is light
cleauly and durable, and of a natural color. The cheapeat and vest material for temporary (aud in many casea) permanent scts, All operations thoroughly performed
aud at reasonable prices.
je. 29

## DESKS

Office $\mathrm{F}^{\text {AND }}$ turniture, OF ALL KINDS...... FOR SALE BY

## JOHN WIGMORE,

No. 423 California St., Sar Francisco.
OFFTCE JOBBENG, of all Kinda, attended to.
SQUARZA'S PUNCH.
FIRST PREMIUM at tee sacramento agricultural state fatr ALSO; FIRST PREMTUM t the San Francisco Bay District Ag̣ricultural Fair, 1862

No. 44 Lcidslerfi strent, Opposite the What Cheer House, San Francissp.

FREDERICK MANSELL, MECHANICAL \& ARCHITECTURAL DRAUGHTSMAN
No. 4 2la California street, corner of Leidsdorfif

El Paso District, Los Angeles Oounty, MINING AGENCY C. W. TAPPAN, GENERAL AGENT "Head Quarters," Mesquit Springs, Will nitend to any business connected witir these minos



 net, Esq, 425 navis St., San Fraucisco Cal
$\begin{array}{ll}\text { E1 'Raso, June 21, 1863. } & \text { C. W. TAPPAN. }\end{array}$

## R. W. MYERS, \& CO.s

Ohases' New Mill, Fremont Stir, near Market,
JOB TURNING \& SCROLL SAWING.

## BRACKETS,

RED WOOD BALUSTERS,
NEWEL AND CEDAR BALUSTERS for stairs.
Manufacturers of every description of Oval, Circular and Square
PIOTURE \& LOOKING GLAASS FRAMES For the Trade at Now Yorb Prices.
All kinds of Designs for Bullaing.
R. W. MYERS.

MIIVING LAWS AND FORMS
TUST PUBLISHED BY H. H. BANCROFT
$J_{k}^{\text {E Co. , bering a compipiation of thic Shitues or this State }}$


## H. C. KIBBE, MINTNG SECRETARY, <br> Commissioner for Nevada Territory, <br> 54a Sacrumento st., cor. Montgomery (ARMORY EALK.)

GENERAL NOTICES.

## WHEELER'S

 Amalgamating and Separating Pans. It is acknowledged by all who bave exanniwed the priti-ciples and withessed the nueration of these Y'ans. that cipey are decidecty superior for triturating and amalgamanting purposes to avy other in use.
The nost inportane principle conncected with the operation of these Pans is the scrparation of the triumating orocess from thi: $t$ of extrnctiug the amalam from the and. The chicf cause of luss uf the prectious metals ari
ies from the passing of of the sume in combinution wit es from the passing off of the sume in combination wit
the quicksilver, during the proces of trituration
 Workug these machines there is do nppreciable loss
wicksilver, und hence nune of the precions met Where tha hane none or the precious metris. Where these pans have been introduced and operated
oy the side of others on sands from the same vat, the by the side of others on ssands from the rame rat, the
Wheelor Paus havo uniformiy gaincd a Iaree percentare of metals over its compecitois, as well as a still larger parcentage in the amount of worts performed.
"F** These Pans man be ssen in dility operation, at the nitere's Foundry, on First sireet in this city, where all
otere invited to cull and examive for themselven. 2016-1f

ZENAS WHRELER.

## Wm, P, TAAFFEE,

Importer and jobber or
Staple and Fancy Dry Goods, CARPETS, DUCK, ETC.,
Cor. Front and Sacramento streets,
San Francisco.
NATHANIEL GRAY, General Fumishing Undertaker, 641 sacramento st., Cor. or web

METCALF \& HOTCHNSON'S

## PHOTGGRAFHIC GALLERY,

G50 Washington st. Whrec doors below Kearny.
Haring refitted the abnve raoms the Firm are now prephred to furnish the publle with a superior ntyle n
Picture, at a lowor price lina ever before offered in tho
city. CARD PICTURES.
As we have evary facility for produciog these banuti-
ful nictures, in all heefr ditierent varietives, wo baro
ful nictures, tif all their difîerent varieties, wo havo re
\$3. Per Dozen!
Large sized fhntographs $\$ 3$-Tirra cupies $\$ 1$ ench.
AMBROTYPES in all Styles and prices.
OI. PICTUREs copied with care nud accuracy, in any atyle desired. Particular athoution paid to pictures of
Cliidren. Pictures painted in 011 or Wrter Colors, and ratoucbe na Iudia Iok by a competent artest.

Theopore Fay Tastac.
MEAD \& TAN TASSEL, HATTERS
montgomery sta, cor. of Commerelal, San Francisco.
TO OUR FRIENDS AND THE PUBLIC GENERALLET
1 Haring lurebased the eutiro interest of Messr Fisark \& Co., in this city, we shall,
May assume the tuanagement of the

HAT EMPORIUM
oo long conducted by that firm.
 man with Neass Fishor \& CO, respectrinly , rolicits a coll-
tinuance of the ppatronago so long and libernily thestowed upon the old house, feeling entire confidence in our absl-
ity to suit in every particul ir. Mr. THEODORE VAN TASSELL, for eight yeats with Messrs Le Gny \& Cor, would bo ploused to soo his friends
The loug ranactical experience of Messrs Mood \& $V$ an
Tassell in he Trade juscifes them in sayiag that their Tassell in the Trade justifes them in ssying that their
work cannut be excelled esither in
Bnith or durability, Having porfected arrangements, wo shall be in constant
receipt, Gy overy steamer of soft goods of the very finest French and American ןManufactore.
Our strok noty on hand is superb.
Call and examine, anid judge of the merits of our clato
the title of "LEADERS OF FASHION."
Respeotruly
MEAD \& VAN TASSELL.

## D. NORCROSS,

Masonic Temple, No. 6, Post Street.
Military Gcods of all Descriptions.
Navy Trimmings and Embraideries.
REGALIA FOR ALL ORDERS.

International Hotel, Jackson Spreiet, -.....- San Francisco [A few doors above Montgomery.] FIRE-PROUF BRICK BCILDING. Most convenrent to the

OPEN ALL NIGHT
${ }^{2}$ City Railroad Cars Pass the Door.
REDUCTION IN PRICES.
Five Bathing Rooms attached to the Barber Shop
Warm and Cold slower Raths Free to Gaests.
Thoroughly renovaten and Newi. furnisled this spring. Every Room opens to the Light nd Air. Fach room is furnished with a Arst quality
Patent spring bed and Garr matrosses. The Iuternaliona

Best Fubnished Family Rooms;
Ind abrta as coon A table as nuy House in tbe city, I am detormined thal, Lhe Istreisatrosal shall be the perior to nuy like eatablishment in the state, aud shall
 enjoyed beretofure. It will be conducted on Temperad
Principles,
F. E. WEYGANT, Proprtetor.

## Tremont House,

418 and 480 ..... Jackson Street,
[A few doors from Montgomery,] SAN Francisco, CaLl.
$T$ GIS FINE, FIRE-PROOF BCILDNXG OFFERS MANY ouly hall a block frum the Post Offce und Custum House?
and ubout the same distance from the principal pluces of and ubout the
Amusement.

## The City Railroad Cars pass the Door.

The House is conducted in Temperance Princlples, Which secures to our gursta quiet.
The prices for board and Ronms are very moderate-
of the day, meal or wcek. Wk sulctr a Carl wroal Alzo F. E. WEYGANT, Proprietor. of my many gansts I have ta For the necommand sen und refurnlshed the INTBRYATYMAL Hotri, and will anry on the wo houss in coninection, so that Trnvelers
wishing to put un ut either hnuse, may toko the Trmunt wiohing to put un hit either hnuse, may tako the Trmiont
or liuternatiomi Hotel Coach and be take to either Huuse With their baggage, Fres. F. E. WETGANT.

## THE RAILROAD HOUSE.

Nos. 318 and 320 Commercial \& Clay Sts., SAN FRANCISCO.
H. T. Fibltonge..-.............. Proprietor

The above House is a Fire-pronf bnilding, with Granite Front, and kept on the European Plan, with hoard and lodging by Day or Week to surt the convenience of our

The Rooms are handsomely furnished upplied with Patent Spring Beds, and Hair Mattranven, affording very snperios accommodations for tamilies or inglo persolls.
The rable is supplien with the best the market affords at priens to suit the times.
The Rail Road House Coach is always in attendance at the steamers to convey passengera and their baggage to he Houre Free of Charge.
The Honse is open all night.

## PATRONIZE <br> homie manuracturies I!!

James Longshore,
Trunk and Valise Manufacturer, 307 Sausome Sreet, under Tchnma House. Trunks and
Yalises, Whulesule and Renll Fine Sole Leatlier Thike Valises, nud a fine assortment of LADIES' TBUNKS uonstautly ou hand. Trunks coverod and repaired.

APARTMENTS.
TORNNAHED APARTMETNS, WITH, OR WITHOUT W Board, at 1018 Powell Strect, belween Clay nud home will do well to apply.

## D. MORRIS,

MACHINE SHOP,
${ }^{277}$ Manate, conere of Bale struct.
Manufacturer of
ED FIRE-PROOF SAFES
WARRANTED FIRE-PROOF SAFES 3inl Work, of all kiods mude to order, All kinds of
jels

## FOCNDRIES \& MACHINE SHOLS.

PORTLAND BOILER WORKS.
MOYNIHA $\overline{\mathrm{N}}$ \& AITKEN,
Boiler Makers \& Sheot Iron Workers,
Mission, between Beul \&t Fremont Sts,
N. $B$ All kiuderl temice num shew Iron Wirst exe Corana.

## P U M P S !

HARRISON'S
Callfornia Lift and Force Fump, Whater valveo ur backisg, Sultably Fur Mher, Fire Eungue. Wreching or IrIgat.


## AI, I. SIZES


C. II. H.ARMSON, Phenix Oil Works,
10-18 617 Fromi sitrext, Sin Francinco,

50 lbs MARINE and Fire-Proot Paint,


 DIRECTIONS:
For Docks of Shups, use two parts. Mineral Paint, one part Thite Lety, mixwith Linsutd wil. ground sulphur,

 2s POUNDS FIRIG-PROOR PAINT.
When uved on Ruonf, Buildings, or Fencen, it is equa Fire Proof, and costing tesnathun any patiat. DIRECTIONS:
HoUse :- Mix three parts Minersi- Puint with one part



G. T. Fougur, Supreriatendent.
wORIS, North Beach; Office, 500 Sac ramento st., San Francisco.
HEPBULEN \& PETERSON'S
AMALGAMATOR.
The subseribera would call the nttentlon of the Miu-
mat Pubtio to thele Rellucer and Analgamator, and also mis Pubtio to thetr Relucer und Annalgamatnr, Rud also to their separatur for reduclog and separating the miae GOLD AND SILVER ORES,
 These mathous secure to the miluor a move Expeditious
aud Perfect Rednetion and Amalgumnun, a Ienn liablio ty to necideat and deliy, itud a gseater amount tif useful

 be mentiongll the Gonld st Curry Mill, the Sive, state
Reductint Works, Yephyr Fhit Mill, Pioneer Mill, Eistera Sope Mill,
novs $3 \mathrm{~m}^{*}$$\quad \begin{aligned} & \text { 'hoovix Mill, ete, } \\ & \text { HEPBURN } \&\end{aligned}$ PGTERSON.

## SOUTH PARK

Quartz ITill and Reduction Works,
$G^{\text {OLD AND SILEER ORES WORKED AT REASON }}$ G. abie rates, and Working Asshys made of ama. Omee at the Mill, South Boach and Thitrd St. jels W. R. WATERs Secretary,
W. W. HANSCOM,

Steam and Mechanical Engineer, Designs furished, and Drawings made for Engines, Mills, Water Wheels, Mining Ma chinery, etc., etc. Agent for MacKenzie: Patent Cupolo and Blower.

At Golden State Iron Works, aug $x$ First stroet, San Francisco

Pankat Claics - We will furubith, on uppleatilue, the

 shuuld be sent.

 ith numb furus, tha will avoll conturlous and prevont

PALMER, HANISCOM \& CO., GOLDEN STATE IRON WORKS,

No. 10, Firat street, San Franclaco,
Furuish Castings and Machinery of all kinds

Grnutir White Ibon Shoes and Dirs. padmer, hanscomb \& co.

## To Quartz Miners.

Trnox's Improved
AMALGAMA'INGPAN wric
PALMER'S PATLNT STEAM CEEST. The abuve combination secures the most any yrucese haw knowa.







## Miners' Foundry

MACHINE WORKS,

shan hrancisco.
$\mathrm{E}^{\text {YERY DESCRIPTION OF IRON AND BRaSS MaCHI- }}$
 in the state of Cialitoruia, will be daruisted with dis-
jutch at the stinerk Ste:am Eugmer aud Bollers, ylour, suw and Quartz
mill machiuery, lifulub t'umus, Anuigamaturs, Hetorts,

Particular uttention will be given to the manufneture
of rachinery in sectious, desizued for places of unfleult

 sinall quant itios will be afforded awple fucillties, free of
cose.
 ings aud superiur jinchinery, at nust reubsialie rutes
are cordiuly myiled to call wefore contractigg elsewhere San Fraluikco, Hebluary 23, 1863. ANGEL \& KING

## REYNOLDS

Patont Cut-0ff and Governor, FOR STEAM ENGLNES.

## 1at of these Invaluable Machines,

 ARE NOW IN USEIn Callfornia and Nevada Territory, giving a perfectly
Saving 20 to 65 per cent of the Fuel.

## Steen's Improved Governor

 uss. It cun be qeen in operation at the Goideo State Iron
Works, and at the Stone Breaker, foot of Market Street,

## Clark'ssteam and Fire Regulator,

For coutrolling the Draft or Blast by openiug the Chim-
ney or Valve in the Blast plyo by the pressura of the sitoan in the bilher. It will regulate the presesure to a
pound, ou the square inch. It cannor got out of order pound, ou the square tinch. It cansor get out of order
sod any persua can put one up in an hour after the dum-

## Ingersoll's Patent Drill Press,

With which drilling can be done the sauno us with the
tommou rachet, sud when small holes are wanted, it

## Felt for Steam Boilers, Pipes, Fto. at the lowest markot rates.

No. 33 Eremout Streut, Sau Francisco.

## THIE

BRYAN BATTERY

| The vast intercest involvelt th the reduction of orcs on <br>  <br>  It may be safely nuld flime Millione of Dolliars havin at. <br>  <br>  that every new process developed during the past twolvo yeurs, his beetu set down as a fallure. The Ordipary stamp Buttory <br> ALONE STANDING THE TEST. |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Tlif. With the Improvements which Exprerienco has
sughesturn, fo now regarded, by common consont, ws the
ouly relinhle ouly relinble

## METHOD OF CRUSUING ORE.

Tis Bryan Battart, as now conatructed, is believed to cimbing all the improrementw which the experierice
of the past has afforded. They have been

## EXCLUSIVELY ADOPTED

by many of the mast promitent Mining Companien in the country, and have bean, for the threce pant yrara, siabJucted to the mont severe of all teste-that of
use-and in every case have lecu promouncod

Effective, Substantial and Reliable.
They are now extensively used throughont the mineral regionn of Culifornia, Nevada and sexioo, and
lunve pstablishey a claim to public combidenco, uevor yot equalled in ony plere of mining machiuery.
Theno Milla aro constructed ulmost entirely of Iron, and, consuquently, are not alfectel by the intonse heat
and drynesp of atmoxphere, common to all mining localand drynesr of ammephere,
tiod. Thoy are ndapled to

BOTH WET AND DRY CRUSHING,
and are warranted to reduce, with the same weight of Stamps, 25 per cent, more ruck than any other mill in
uBe. Eavih Battery is complete in itseif, and forms a Me. ar subreqent time-ih
aniformity of the Mill
As an evidence of the Increasing favor with which these mills nre regarded, we wnitd mentinn that the
Celebrated Ophir Compmy frut miroducad them into Celebrated Ophir Compmay frat introduced them into
their wrorks io 1880 , allit have been addlug n number of
 Niucteen, runaing Scvelly-six Siamps,
They are perfectly fiterl and set up at our Works, beore slipping, achl pieco being marked and numbered,
so that they can bo put uil and set al work in ten liours so that they can bo put uip and set al work in ten hours
after arriving on the ground. They are made of two niater arriving od the ground. They arommule of two ni-
zes, four avi fve stamps each. The Four Stamip
 ciat in sectlong, when desired, so that the mills can bo e any mountam road.

Wo annex the names of f few well known Companies
who have adopted themmernuwing from frar to sevontyWho have adopted them-running from friar to
aive stamps cact - to whom reforence is made
Ophir Mining Co., Washoe Valley, San Marcial Co., Mexico,
John D. Winters \& Co, Esmeralda,
Crown Point Co., Gold Hill,
Potosi Mining Co., Vi ginia City, Tajo Mining Co. Mexico, Sheba Mining Co., Humbultd. Lotta Mills Co., Coso. San Carlos Mining Co.,, Owen's River, Enion Quartz Co., Aurora, Triunfo Mining Co., Mexico,
Napa Qui tz Co., Aurora,
Petaluma Quartz Co, Gold Fill,
Francis Mellus \& Co., Slate Range,
W. R. Churchill \& Co., Mexico

Willow springs Co., Coso,
Hews, Howe \& Co., Rich Gulch Flat, F. A. Benjamia \& Co., Mexico, O. J. Parker \& Co., Nicaragua, Gibhons \& Clayton, Esmeralda, Smith \& Clouser, S. F. Reduction Works Amagoza Mining Co., San Bernardino,

## MANUFACTURED ONLY BY

GODDARD \& CO.,

## At the Pacific Iron Works.

SAN FRANCISCO.
os 125 to 136 Firat street, and 126 to 144

## BOOK KEEPING,

 Penmanship OOMMERCIALOALOULATIONSPRACTICAL ACCOCNTANT. 30s Donegomory sercet, Corner of pine.

## TO QUARTZ MINERS.

Al permoni intcremted in mining Mran




 maller and reducing the whote thase to an imvilpable
pandur. Noi quick silver lies bontween the surfaces to ho ground,
 cember luat, mid all jurbena are agalif warned acallist


 Btyle 'th which they ure boing manufactured.
sentid
TiosiAS Varvey.

RIEHN, HEMME \& CO.,
$A S S A X I X S$
Offioe, Montgomery street, oor, of Oaliformia

## Assays Made of ores, Minerals and Metals.

rarkrrgd witil prransstow to

Cass. F. RIEAN, late U.s. Brulleh Mint, gives Lenanus in Asseying, also in Mimeralogy and Cluemstry as far as re-

## G. E. MOORE, <br> Assayer and Analytical Chemist, <br> No. 612 Sacramento steet, <br> H furnished with every requisite for delicate alualyu cal work, is prepared to execute the Assay and Aualysi of Ores, Misue <br> REFtreyces <br> Prof. J D. Whitney, State Geolugist, San Fravelsco <br> Alsop \& C $n_{\text {, Sun Francisco }}$ Sather Church, San Fruuci <br> John Parrolt, sun Fra

## I. . . E. KLEPZIG \& 00 .,

GUN MAKERS,
DEALERS IN GUN MATERIALS,
733 Washington street, San Francisco,
[One Dowr above Kearuey street.]
Repairing done in a workmanlike mannor at the athor est notice. and also Silver Plating, by E. Eklaud. je21
Glding,

LEANDER RANSOM,
Civil Engineer
AND
SURVEXOR,
Having been connected with the public works of the State of Ohio for 20 years, and the publio surveys of the State of California for 7 years.

## ALSO

## state locating agent.

600,000 ACRES OF STATE SCHOOL LANDS,
At the low price of $\$ 1,25$ per Acre.
Terms-Twenty per cent in cash and tho balance on a credit or several yeurs.
OFFICE. 328 Montgomery

## WANTED

By a competent person, the Secretaryshis of four Mining Compunies. Books to be kept at the office of the Miniog and Scieutíac Press, No 67 Goveramant Houba

Great Central Mining Company, Arizona.- San Fran-
cisco, December $24 t h, 1863$. .The ilisst annual meetiug of siockholders in the Great Ceniral Mining Company, will be held on THURSDAY, January 7 th, 18 Ci , at the Ontice of the Company, 542
mento atreet, at 7 o'elock, P. A. By order of the Prestident.
Interprise Copper Minlng Co.-OAfice, 528 MIontgomery St., San Franciseo. Notice fshereby given that there will be suld URDAY, January 30 eh., 1864 , at $100^{\prime}$ clock, A. w., so many shares or assessinents due and delinquent, December 10th., 1863, standing in the names of the following parties
 18*3. - Notice is herelyy given, that in accordance with the laws of
the State of California, and anorder duly made by the Board of Trustes of the Tl ro Silver Mining Company, December 14th, 1863,
there will be sold at public Auction, by Jerome Rice \& Co., 327 Montromery St., San Francisco, on MONDAY, January 18th, 1864 ,
at Eleven o'clock, A. M., so many of the Shares of the Capital Stock of the Company, standing in the names of the fullowlag persons or shareholders, as win be necessary for the payment of assessments
duly


Sun Francisco Silver Mining Company, Lower Call1863 - Notice Is hereby given, that $3 n$ accordance with the laws of tho
State of Calitornia, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver MinIng Company, there will be sold at public auction, at the sales-room
of Jerome Rice \& Co., No. 327 Montgomery street, San Frucisco, on of Jerome Rice \& Co., No. 327 Montgowery street, San Francisco, on
MONDAY, January 251 h, 185s, to the highest Didder for cash, in U. S. gold coln, so many shares of the capifal stock of said Company, standing in the names of the following persons, as whl he sufficient
to pay the assesments heretofore levjed and past due, together with the cost of advertisements and expenses of sale, unless suid assess ments and charges are sooner pald.


## MINING AND SCEENTIEIC PIRES

Pocket Calendar for 1864


## CROCKER'S

N
$S^{T 0 C}$ Copyright secured-Price $\$ 10$. and
ver
aud
expl
CLi
met sud simplicity, and would not require the services of an an
 Secretaries of cormonat; we have subunited it to severral
tho plan is admirubions they tcknowledge that



$\qquad$
$\qquad$ Brok, all three of which Secretaries have here'ofore been
obliged to keep, condensing the whole in one book. To book will prove invaluable, and we foul no hesitation in uarranteeing satisfaction to thrse who may order them
Specinen shcets scat to those who desire to examine it The boedss are ruled with one or two accounts to the page Published and for
Published and for sale, wholesale and retail, by
H. S. CROCKER \& CO., Book aud Job Printers, Sucramento.
Certificates!

MINING NOTICES.
Enterprise Copper Mining Company-

 nuther assessment of eight centa per share payable Fol ruary 1st. 1864 , all payable in U . S. .golid coun, to Thomile
S. Lovy, the Treasurer, al Linooin, Placor county, or to


Wide West Copper Mining Company,
offer 528 Montgomery street, Sun Frameco, Decembor Ofice 528 Montgomery street, Sin Fratuisen, Devembler
12,1863 . Nutice is hereby given that ascessment No. 2
of wenty-ivecents was this day tevied on each nid every share of the capital stnck of the Wido Weat Copper
Minuiug Cumany. payable in U. Sold coin. to the Sec-
retiry at the office of the Company, or to J, M. IKE retary at the office of the Com
Superintendent, Conperopolis. Superintendent, Comperopolis.
Bv order of the Board of

ASSAYS!
Promptness and Accuracy Secured By the Use of the Most

A NALYSIS:
Advantageous Terms for Prospector's Clubs and Mining Companies.
 A4 Government Block, coryer of Ssnso
Washiugton Suests, suan Fracisco.
"HINTS For lPROSPECTURS" Free Uy Post.

## Inining Shares For Sale

## O. A. ORANE,

Ofice 28 Government Block. 475 Shares U. S. Miniug Cumpany, Virgitia City. 910 Shares Grauda Gold aud Silver Mining Company
Virginia Hil, Virginia Clty 168 Shares
, Chures Mohave M
30 Shares Aspinwall Gold
Devil's Ga e District, N.T.
75, Shares Wiashington Copper Mining Company, Iodiau
ur, Tuulumue Co.
$2 z 8$ shares sloutezuma Gold aud Silver Mining Com 90 shares Owen's County Conaolidatod Gold and Silver 50 Shares Crown Puint Ravine Gold and Silver Mining 10 Shares Triunfo Gold and silver Mining Company
sep28
an Antouio District, Lower Catifornia. N. LOMBARD INGOLS.

## Accountant and Mining Secretary,

o. 10 Govgrxamest Hutse, Cor. Washington \& Sansom Sts,

Santa Cruz Pctroleum Oil Works Co., Gem Silver Mining Co., (Reese River, N. T.,)
Laurel G \& S Mining Co., Copala, Sinalos, Mex
N. B. Mr. Ingols will pay particular attention to the
adjustment of conplieated accountr, Commercial and In.nrporated Comp.anies' Bonks, to drawing up Commer-
cial writungs aud to Engrossing legal or other doouments than twenty five yeara in every birach of his profession is analantee or he practith and tharough aceuintance
with its duties. He has the privilegg ot refterring to some of the leading mercantile honses and legal nrueti-
tionern on he Allautic and Pactice aides, for aestimony
of his busiuess and clerkly abilitien.

Heyer Bros.,
and 78 siederal


## HEYER \& CO.,

TMPORTERS OF
AERICAN AND EUROPEAN Fancy Goods, Toys \& Masical Instruments; also




> Hallet \& Davis' Boston Pianos,
> Smith \& Bros Harmoniums, and
> The Hallot \& Davat \& Linsley's Melodeons.

Pateut Suspension Briuge, which 15 a decided improve
meut. It tives a full and clear vilutaion in the upper

AGENTS WANTED.
We want a gnod agent in every ctiv, town and settle
ment, on this Coas. Aplicinto will seud heir names
with, reference, when specimen numbers of the Mifu-
ing \& Scienific Press wil be forwarted to them,

## Owens River Canal Company.

## FOR SALE,

 reseateri to the public tat the best investument, for the

## REMOVAL.

OTFICE OF THE PACHMIC METAL
 Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or sil
versmiths' sweepines reduced or purchased.


Fire Hose! Fire Hose!! Fire Hose!! J. P. D. WILKINS,

The celebrated HARNESS MaKFR of sitnustrn, maki
FIRE Hosz

 ALSO FOR SALE,
 Mrices. Rtreat Stible.

## WANTED,

GOLD QUARTK SUITABLE FOF CUTTING JEWELRY,

By FRONTIER A. DEVIERCT,

## MARTIN \& Co.,

OFFICE-..284 Montgomery Street, Up Stairs, will contract for the
Purchase of Copper Ore
 aud NICKERL
Sulcha will be furnichef aod Freights Paid on all

## Henry Martin, J. F. Greenman,

 Sud Francincje 1.

## NORTH BEAOH QUARTZ MLHL REDUOTION WORKS

## Are prepared to mall quantities.

Working anseys made of small lote, und Our new and romplite thenchinery, will
five results fully up to the meritit of rock. WHELIER \& THAYER, Pronrietors

San Francisco, Oct. 13, 1863.

## Jonx P G Gallacher <br> Tonsyr H. WYEx <br> GALLAGHER \& WEED, <br> BRASS \& BELT FOUNDERY <br> LOCK FACTORY.

## No. 125 First sireet, opnosite Minna, next dour to Pac

Brass and Composition Castings and Finishing, done with neatness and dispatch.
$\mathrm{C}^{\mathrm{H}}$ Nat AND Mrtaingar berse or dul surs Noets, alito banse Paidn oke and Shop Locts of various
 All Jobs promptly attended to.-Prices moderate.
Removed from Oregon street, betwoen Front nnd Davila

## L. F. LELAND,

STOCK BROKER, No. 681 Clay stroet,
Offee Hours, 10 to 11, A. M.; 2名 to 3年, P. M. Member of the San Franciseo Stock and Exchange Board

## AGENOY

## MEXICAN MININGSTOCKS

 Miliforia:
Culiforvia,
All persons are invited to call and examine Ores from
the ubove mines.
jele
WM. FAUI.KNER.

## New Bedford Copper Company <br> $T$ <br> Sheatitiva Copprr; <br> Brazier's Copper; <br> Coppre Bolis; <br> Yeliow Seleathing Metal: <br> Copper and Composition Nais; <br> Whien they ofter to the Trade at the lowest martoot 


[^0]:    San Fraucisco Jan, 27, 1862.

[^1]:    julius sliversitit.

[^2]:    DEVOE \& COS.'
    STEAM ENGINE
    MACHINE WORKS,
    A
    
    
    
     ". Stexm Engines and Boxlers constantly on hand, and for sulecheap. Screw-Cutting and Turniog
    Lathes for sale. Sprade fetant find, timmen ihre פplitthungcteil in ber beutififen Spradige madien Sfijzenvon Erfinturgen mit furzen, beut-
    tide
    geidriebenen Beidrcibungent beliebe man zu abbreffiren an.

    ## Gird's Budding Knife.

    $T$ an atrention of farmers, horticoliturists nplements, are relerred to the above invention. For State, Territory and workshop rights for ealo at rea-
    sonable prices. Address, Publishers of Mining \& Scientific Press,
    (Agent for Patenteo) $\begin{array}{ll}\text { sepl } 1.3 \mathrm{~m} & \text { (Agent for Patentec) } \\ \text { San Fraciseo }\end{array}$

[^3]:    It is acknowledged by all who have examined the principles anc witaessed the operation of these Pans, that mating purposes to any other in use.
    The most important prizciple connected with the ople ration of these Pans is the separation of the trituratiog
    process from thrt of extracting the amalgam from the process from that of extracting the amalgam from the ses from the passing off of the same in combination with the quicksilver, during the proces of trituration, aud in cleaning up. By the athoduction of the Separating Pal
    to fullow the trituration this loss is entirely arolded. I to fullow the trituration this loss is entirely arolded. In
    working these machioes there is po appreciable loss quicksilver, wod hence none of the precious metals.
    Where these Pans bave been introduced and operate py the side of others on sands from the same pate, the
    Wheeler Paus have unitornly gained a large pereentage of metals over its competitorb, as well as a stlil larger Feicentage in the amount of worls performed.
    *** These Pans man be seen in daiky operation, at the
    Miner's Foundry, on First street in this cily wher at Miner's Foundry, on First street in this city, where al
    interested are invited to call and examine for whemseles nol8-tf ZENdS THEELER.

[^4]:    LEWIS COFFEY AND RISDON, STEAM BUILER AND SHEET IRON
    The only exclusivcly Boiler Maiksing Establishment on
     to quality.
    Old Stand, corner Busih and Market Streets. Ouposite Oriental Hotel, San Frabeisco, Cul. LEWIS COFEEY
    J. N. Risdun.

    TUEODOR KALLENBERG Maker of Models FOR INVENTORS.
    M
    
     Rephuriug of Muelinery promptly atended to.
    NO. 4 Sansome street, comer Market,
    at.3nj)
    Sau Fraboisco. (07.319)

[^5]:    WH. FADI.KNER.

[^6]:    Bullion, gold and silver. Russ District, David Wilder, 522 Montgomery street.
    Bright Star, gol 1 and silver, Esmeratda District.
    Bulhon, gold and silver, Van Mora Di-trict, T' L Bibbins, 305 Montgomery street. Butte, rold nud silver, Sierra County.
    Bella Vi- ta, gold and silver, Lower Ca'ifornia, S S Sprague, cor. Cal. and Sansome.
    Burnside, silver, Virginia District, E C Lovell, 436 Jackson street.
    Banner, go d and silver, Kismeralda District, R N Van Brunt, 706 Montgomery street. Bultic, gold and silver, Gold Hill District, W W Coryell. Virginia City.
    Best \& Belcher, gold and silver, Virginia District, H W Woodruff, Gold Hill.
    Buffalo, gold and silver, Green Horı Distrier,
    Bodi-1 Bluff C. T. \& M. Co., Bodie Miniug Dis. Cal., J F Sterling, 33 Montgomery Block. Brenus, gold and silver. Virginia Iistriet, 1 F Verdenal, 636 Clay street.
    Bajazette \& G. Ezra, go d and silver, Virginia Di:trict, R D Furguson, Virginia, City. Bamboo, gald and silver, Esmeralda Wistrict, W B Minturn, MeAllister Building. Bodie No 2, gold and silver, Bodıe District, Cal., A L Chamberlin, 413 Montgomery St. Brarton, gold aud silver, Humboldt District, Wm P Denkla, 413 Montgomery street.
    Brar Ba, gold aud sitver, Humboldt Bist and silver, Esmeralda District, E. Daniels, Express Building.
    Blue Mohutain, $g$ ld and silver, Calaveras CDD., Hugo Dreschfeld, 24 Naglee's Building.
    Bohemia, gold and silver, Mono Co.
    Ba.ker, gold aud silver, Am. District, Ḣ. C., J S Luty, 305 Montgomery street.
    Blue Ridge Mining Co., Slate Range District, G J Turner 606 Montgomery street.
    Bohemia, gold and silver, Mona Uo.,
    Barker, gold and silver, Am. District, H. C., J.S Laty, 305 Montgomery street.
    Blue Ridge Mining Co., Slate Range District, G J Turner 606 Montgomery street.
    Buena Ventura, G. and S., Aurora, Mono Co., Win V Garvey, 612 Merchnnt street.
    Best Chin'e, gold and silver, Eicho Dist.. Nevada I'., Geo. E. Phelan, 726 Montgonnery St.
    Brazer, gold and silver, Esmeralda District, T H Templeton, 550 Clay street.
    Big Chief, gold and silver, Esmeralda District, P B Cornwall 608 Merchant street.
    Bhue Lredge. gold and silper, EL Dorado Co., A, St E Denver; Coloma.
    Benson, gold and silver,
    Burton, gold and silver,
    Bennington, gold and silver.
    Buckeye, gold and rilver.
    Brennus, gold and silver, Devil's Gate District, F. W. Gross, 436 Jackson street.
    Barclay \& Smith Mining Go., D F Verdenal, 636 Clay street.
    Barnard, gold and silver, R T Polk, 56 Lyceum Building.
    Boston, copper,
    Black Belt, gold and silver.
    Brewster, gold and silver, Esmeralda Distict,
    Baltimore Americ in, gold and silver, J L Pool, 540 Washington street.
    Berry Mining Co., Slate Range District, E Barry, 636 Sacramento street.
    Black Bess, gold and silver.
    Bay State Tunnel Co.
    Big Tree, gold and silver, Amador Co., T J Owens, 1 Armory Hall.
    Big Blue lead, gold and silver.
    Baltimore, gold and silver,
    Brasley, gold and silver, Reese River District, J L Pool, 540 Washington street. Black Rock, gold and silver,
    Barou Rothehild, gold, silver \& copper,
    Battle Snake, gold and silver,
    Byrd's V alley, quartz,
    Baron, gold and silver,
    Butler, gold and silver. Wm Li Moody, 706 Montgomery street.
    Broadhead, gold and silver, Thomas McC̣allan, 617 Clay street.
    Burmingham, gold and silver,
    Beverly Con'd copper, Li Dorado Canon, J P Nourse, Lucas \& Turner's Bnilding. Bigler, gold and silver.
    Big Canon, gold and silver,
    Belknap Mining Co. F W Gross, 436 Jackson street.
    Bunker Hill, gold and silver, Sauta Clara Distriet, W H Hartin, 617 Clay street,
    Buena Ventura Min'z Co., Sonora, Mexico,
    Barry Silver Mining Company, Slate Range District, Edward Barry, 636 Sacramento st.

[^7]:    AGENCY
    For the Purchase and Sale of
    MEXICAN MININGSTOCKS
    
    Califoria.
    All persons are invited to call and examine Ores from
    a a above mines.
    de above mines.
    jel3
    Wr. FAULENER.

[^8]:    A. C. MORSE, Mining and Real Estate Agent,
    
     nd SELL overy description of Minigg stocks in Eame. alda District
    p. DONAROE.
    H. J. B6OTE.
    C. S. BlGGINB

[^9]:    New Style of Ladies' Buckle!
    W. BOHM,

    Invintor and Patentre.
    CHE SUGSCRIBEP. HAVING OBTANED LETTERS PAT-
    ent from Washington for an improvemeut in the istruction of Ladies' Buckles, is now reat to to furnis the snme in every varioty of style. This buckle Shenses several very inportant improvements over any her in use.
    The inventio
    tent office, has been adiud carefully examined at the ont, and Jatters Phteut have been granted for 17 yeare. excelts all other buckels in
    Userulness, Strength and Appemrance.
    The Publio is respectrully invited to call and examine
    4/ Buckle at the Jewolry Establiahment of
    BRAVERMAN \&LEVY
    BRA VERMAN \& LEVY,
    gton Street, San Francisco.
    621 Wushington Street, San Francisco.
    607 Montgomery Street, Sau Frsncisco.
    118 I Street, Saeramento.
    Evary Bucklo mold, stamped "W. Bohm jy 47

[^10]:    ## APARTMENTS.

    $\mathbf{F}^{\text {UUNTIHED }}$ APARTMETNS, WITH, OR WITHOUT Washinpton street. Perrona diesirous of a respyenatad home will do well to apply

[^11]:    Utica Gold \& Silver Mining Company
    Offec, 528 Montgumery Street, Sin Fre 1863.
    Notice

    Notice is bereby piren, that in ascordauce with the
    laws of the Slute of California, and ithe resoltions laws of the Slute or Californina, and the resolutious aldop-
    ted by the Board of Trustes of the Utiea Gold nud Silse Led by the Board of Trustes of the CLites Gold nud Silser
    
     Miuing Company, slauding in the names of the coliowing
    named persons, as will he neces arry for the payment of named persons, as will he necesury for the payment of
    the assensment of ten cents per share, levied June 12,
    1863, and two dollars per slise
     ungless suid a
    ously pail:
    L. Bames,
    L. B. Loth,
    G. . Churc
    G. Gray
    J. F. Gilbert,
    F. A. Bater, $\stackrel{\text { No. }}{\stackrel{1}{4}}$
    G. L. Church,

    Geo. Morrow,
    J. Moyer,
    J. Kannsier,
    San Fravelsco, Sept. 18, 1853.

[^12]:    H. C. KIBBE, MINING SECRETARY,
    Commissioner for Nevada Territory,
    542 Sacrumento st., cor. Montgomery (armory hall.)

[^13]:    Power requir-
    ed.......No statement. No statement. $21 / 2$-horse.

[^14]:    

[^15]:    

